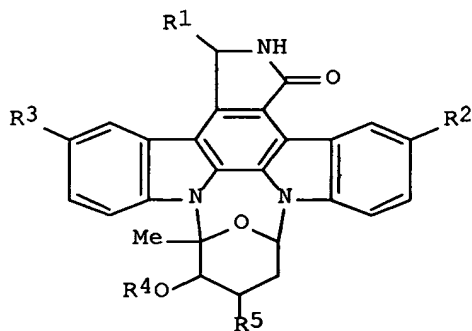


L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2001:50652 CAPLUS  
 DN 134:116112  
 TI Preparation of staurosporin derivatives as antitumor agents  
 IN Kanai, Fumihiko; Amishiro, Nobuyoshi; Kitamura, Yushi; Murakata, Chikara; Akiyama, Tadakazu; Akinaga, Shiro; Fuse, Eiichi; Kuwabara, Takashi; Yasoshima, Kenichi  
 PA Kyowa Hakko Kogyo Co., Ltd., Japan  
 SO PCT Int. Appl., 190 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|---|------|----------|-----------------|----------|
| PI | WO 2001004125   | A1   | 20010118 | WO 2000-JP4702  | 20000713 |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG<br>EP 1201668 A1 20020502 EP 2000-946296 20000713<br>R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL<br>PRAI JP 1999-198393 A 19990713<br>WO 2000-JP4702 W 20000713<br>OS MARPAT 134:116112<br>GI |      |          |                 |          |



I

AB The title compds. I [R1 is hydrogen, hydroxyl, or lower alkoxy; R2 and R3 are each independently hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, halogeno, nitro, formyl, or the like; R4 is hydrogen or the like; and R5 is NR11AR12A (wherein R11A and R12A are each hydrogen, substituted or unsubstituted lower alkyl, or the like), a proviso is given] are prepd. Compds. of this invention in vitro showed IC50 values of 0.0051 .mu.mol/L to 0.19 .mu.mol/L against lung cancer cells A-449. I also increase the activity of antitumor agents. Formulations are given.  
 IT 320382-30-7P 320382-31-8P 320382-32-9P

320382-33-0P 320382-35-2P 320382-36-3P  
 320382-37-4P 320382-38-5P 320382-39-6P  
 320382-40-9P 320382-41-0P 320382-42-1P  
 320382-43-2P 320382-44-3P 320382-45-4P  
 320382-47-6P 320382-49-8P 320382-50-1P  
 320382-51-2P 320382-52-3P 320382-53-4P  
 320382-54-5P 320382-55-6P 320382-56-7P  
 320382-57-8P 320382-61-4P 320382-62-5P  
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 320382-71-6P 320382-74-9P 320382-75-0P  
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 320382-97-6P 320382-98-7P 320383-19-5P  
 320383-21-9P 320383-32-2P 320383-33-3P  
 320383-38-8P 320383-39-9P 320383-41-3P  
 320383-42-4P 320383-44-6P 320383-45-7P  
 320383-47-9P 320383-48-0P 320383-50-4P  
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 320383-62-8P 320383-64-0P 320383-68-4P  
 320383-77-5P 320383-78-6P 320383-96-8P  
 320383-97-9P 320384-18-7P 320384-20-1P

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

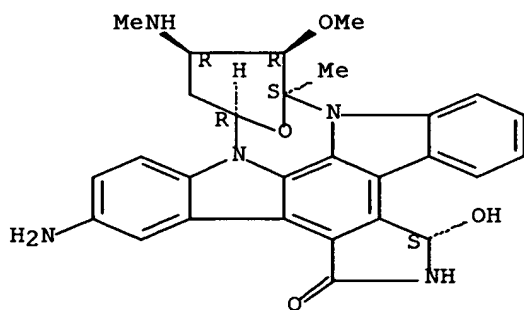
(prepn. of staurosporin derivs. as antitumor agents)

RN 320382-30-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-3-hydroxy-

10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

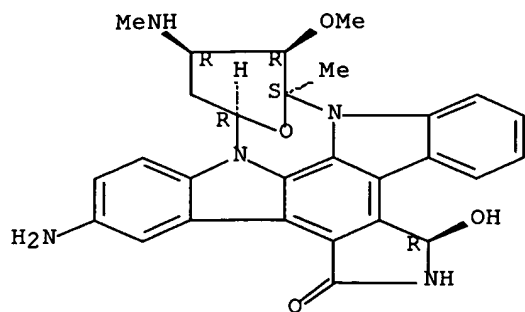


RN 320382-31-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-3-hydroxy-

10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

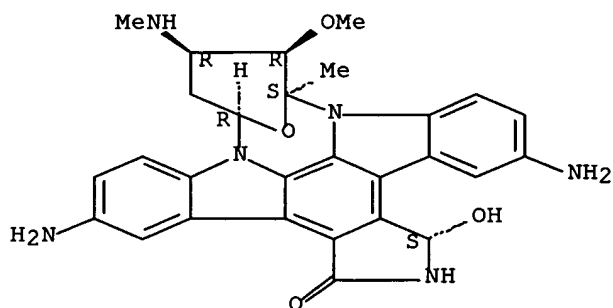
Absolute stereochemistry.



RN 320382-32-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)-  
(9CI)  
(CA INDEX NAME)

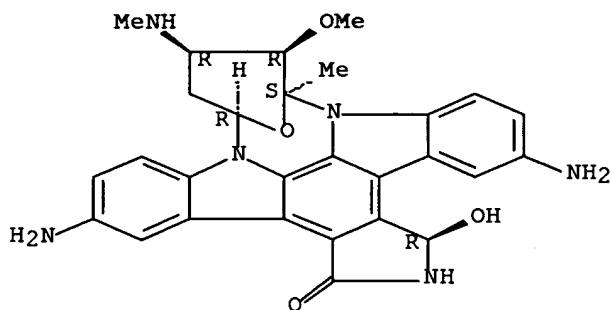
Absolute stereochemistry.



RN 320382-33-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)-  
(9CI)  
(CA INDEX NAME)

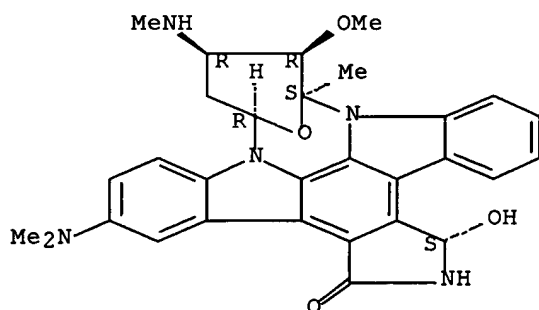
Absolute stereochemistry.



RN 320382-35-2 CAPLUS

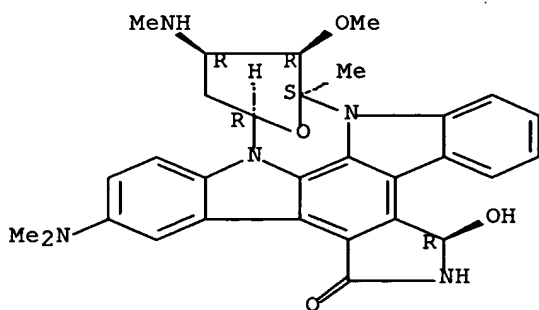
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-(dimethylamino)-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)-(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



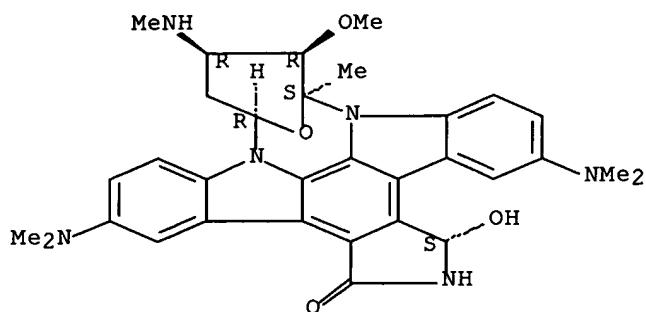
RN 320382-36-3 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-(dimethylamino)-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)-(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



RN 320382-37-4 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis(dimethylamino)-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

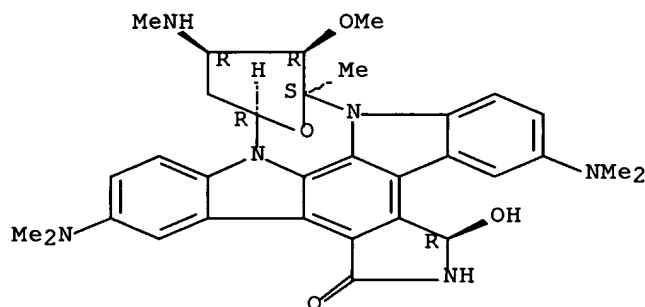
Absolute stereochemistry.



RN 320382-38-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis(dimethylamino)-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

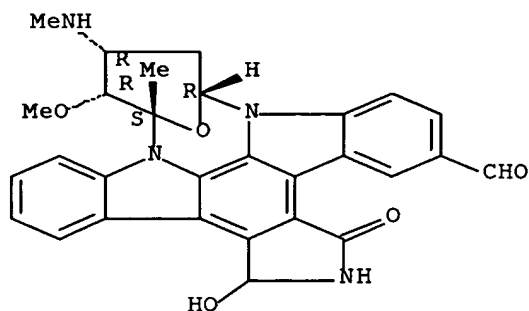
Absolute stereochemistry.



RN 320382-39-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxaldehyde, 2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



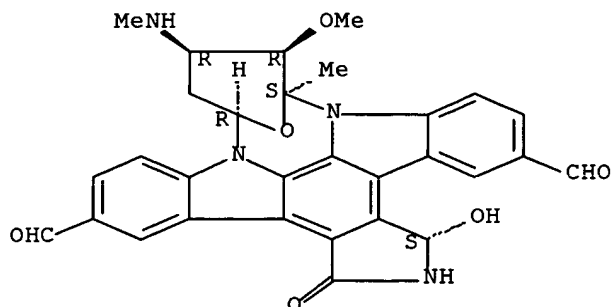
RN 320382-40-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxaldehyde, 2,3,10,11,12,13-hexahydro-

3-

hydroxy-10-methoxy-9-methyl-11-(methylamino)-1-oxo-,  
(3S,9S,10R,11R,13R)-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

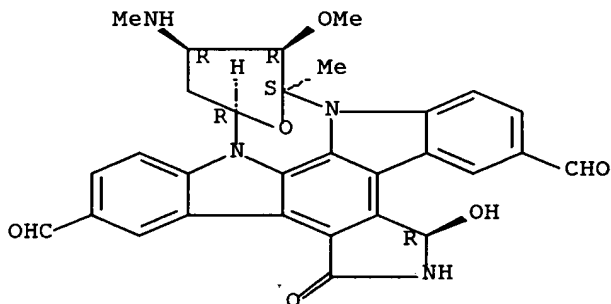


RN 320382-41-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxaldehyde, 2,3,10,11,12,13-hexahydro-3-

hydroxy-10-methoxy-9-methyl-11-(methylamino)-1-oxo-,  
(3R,9S,10R,11R,13R)-  
(9CI) (CA INDEX NAME)

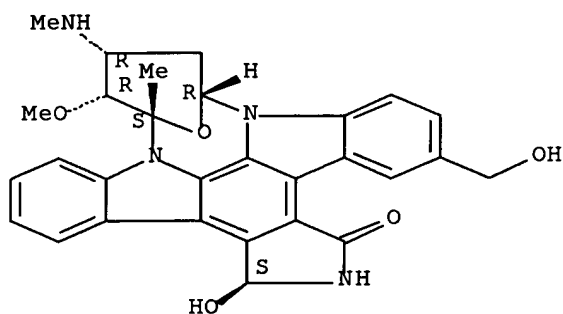
Absolute stereochemistry.



RN 320382-42-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-,  
(3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

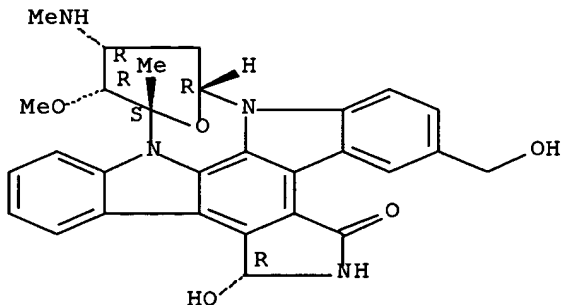
Absolute stereochemistry.



RN 320382-43-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

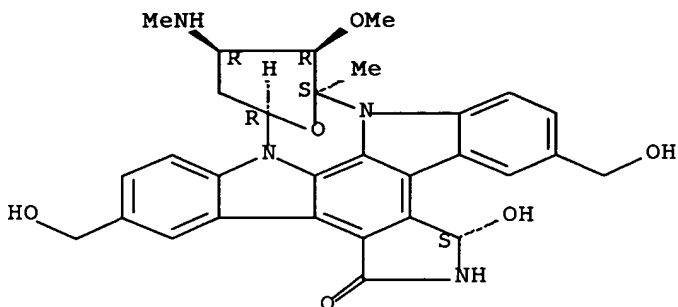
Absolute stereochemistry.



RN 320382-44-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

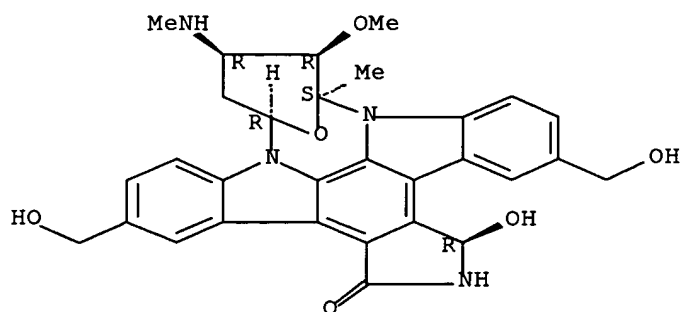


RN 320382-45-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-5,17-

bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-,  
(3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

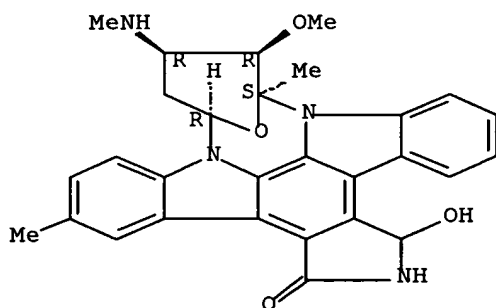
Absolute stereochemistry.



RN 320382-47-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9,17-dimethyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

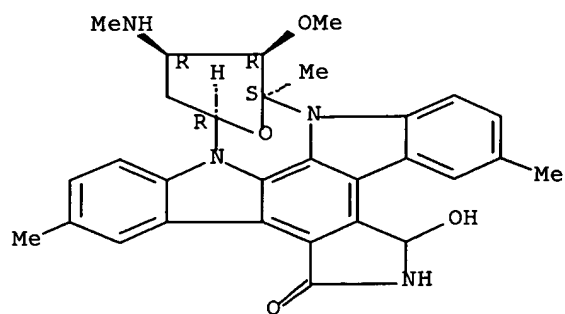


RN 320382-49-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-5,9,17-trimethyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

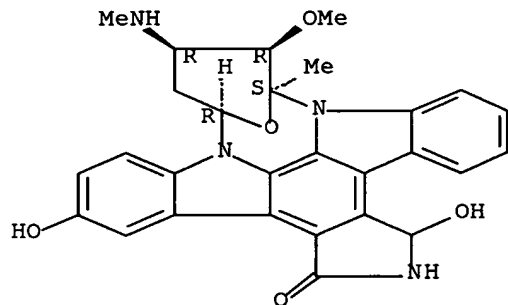




RN 320382-50-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

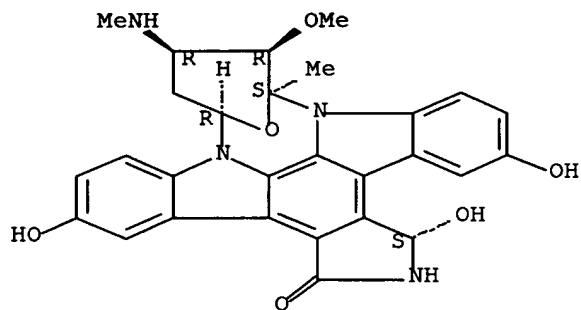
Absolute stereochemistry.



RN 320382-51-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3,5,17-trihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

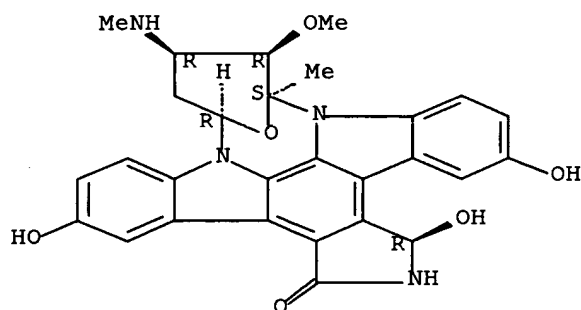
Absolute stereochemistry.



RN 320382-52-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3,5,17-trihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

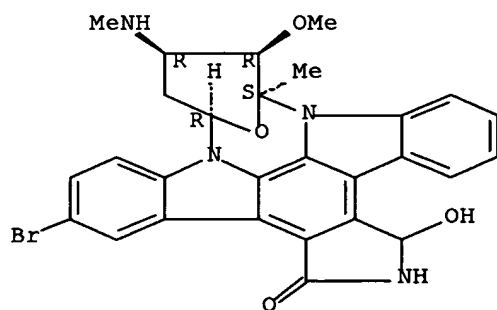
Absolute stereochemistry.



RN 320382-53-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-bromo-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

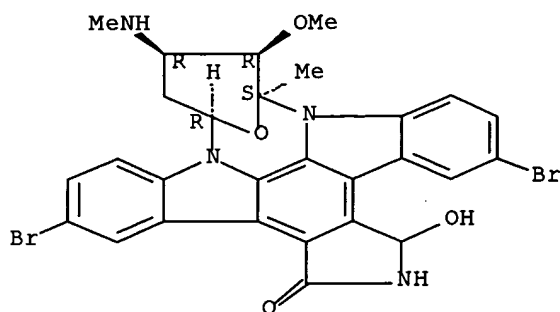
Absolute stereochemistry.



RN 320382-54-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-dibromo-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



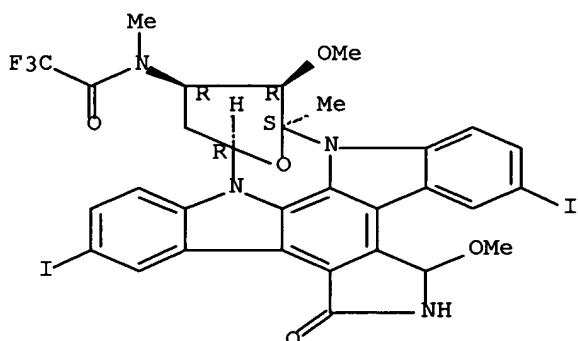
RN 320382-55-6 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-

5,17-diiodo-3,10-dimethoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-

gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI)  
(CA INDEX NAME)

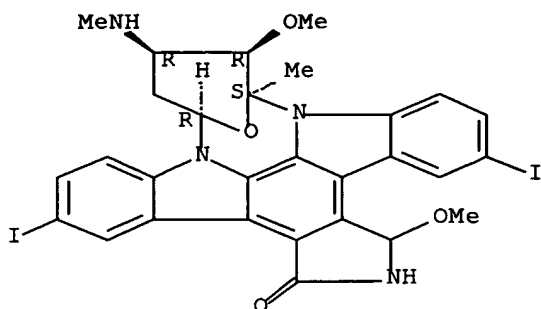
Absolute stereochemistry.



RN 320382-56-7 CAPLUS

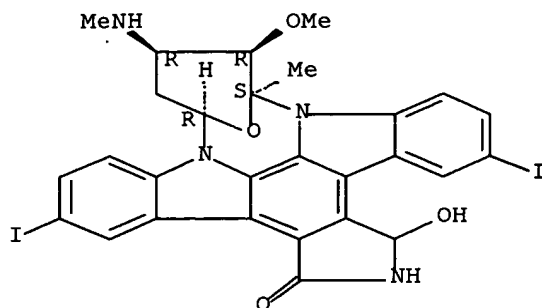
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-diiodo-3,10-dimethoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



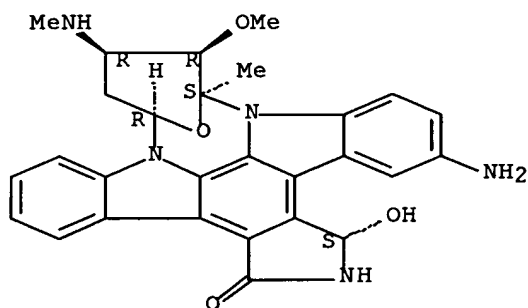
RN 320382-57-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-5,17-diiodo-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



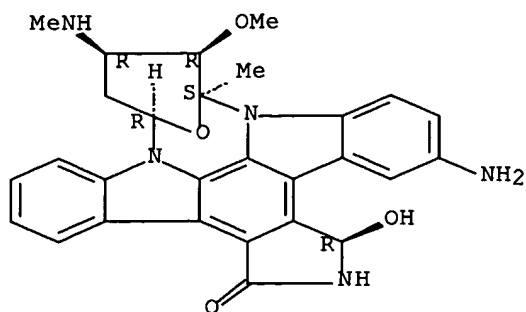
RN 320382-61-4 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5-amino-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-62-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5-amino-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

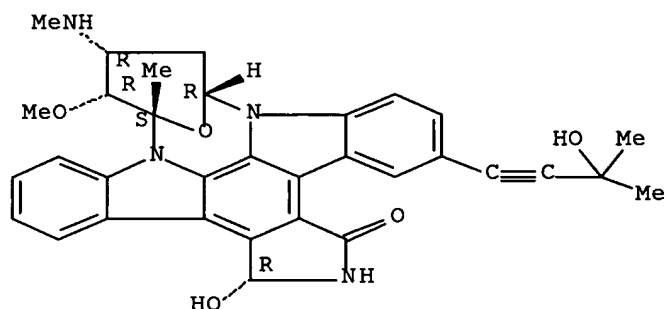
Absolute stereochemistry.



RN 320382-66-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(3-hydroxy-3-methyl-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

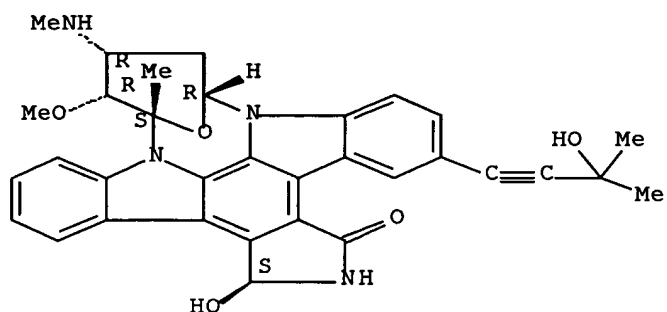
Absolute stereochemistry.



RN 320382-67-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(3-hydroxy-3-methyl-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

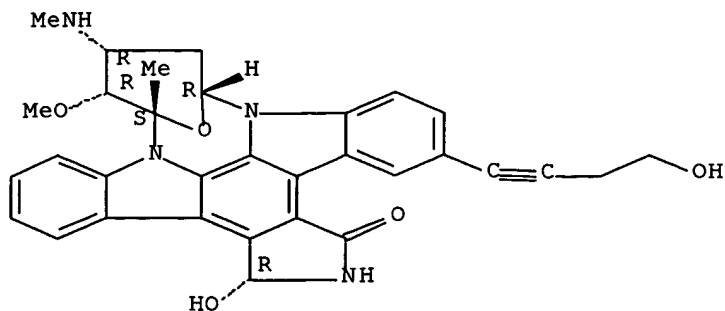


RN 320382-70-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(4-

hydroxy-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-,  
(3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

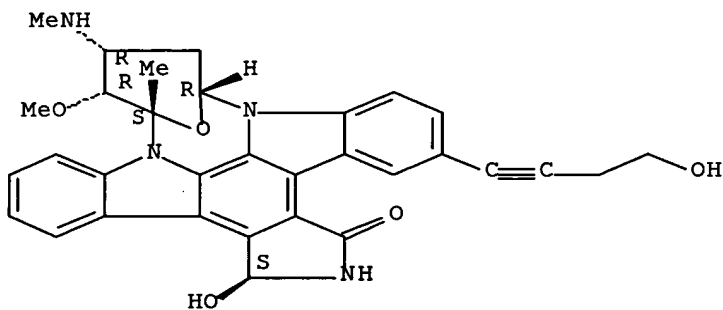
Absolute stereochemistry.



RN 320382-71-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(4-hydroxy-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

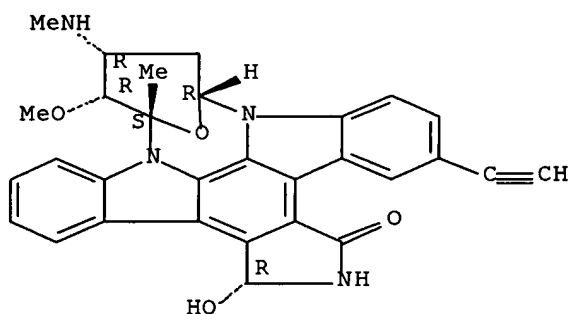
Absolute stereochemistry.



RN 320382-74-9 CAPLUS

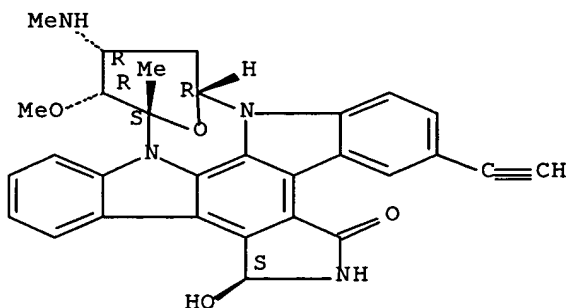
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-ethynyl-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



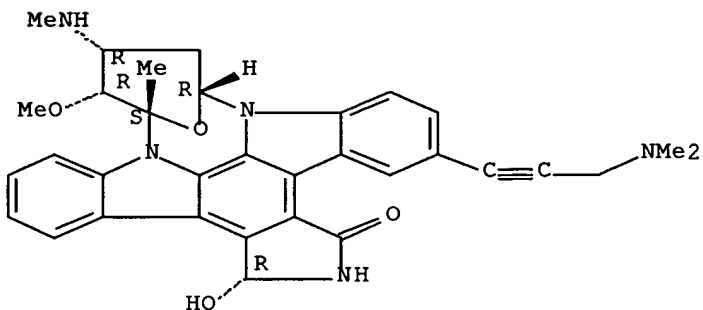
RN 320382-75-0 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-ethynyl-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-80-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

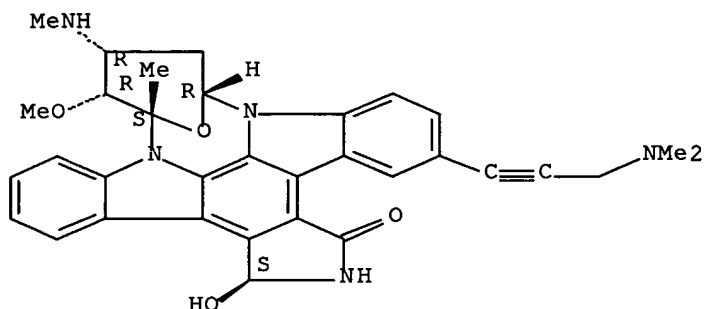
Absolute stereochemistry.



RN 320382-81-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

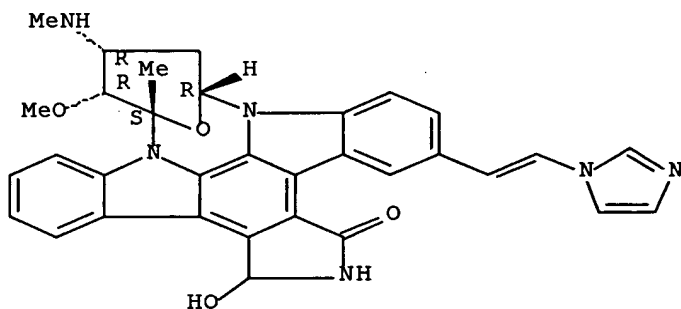


RN 320382-94-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-[2-(1H-imidazol-1-yl)ethenyl]-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



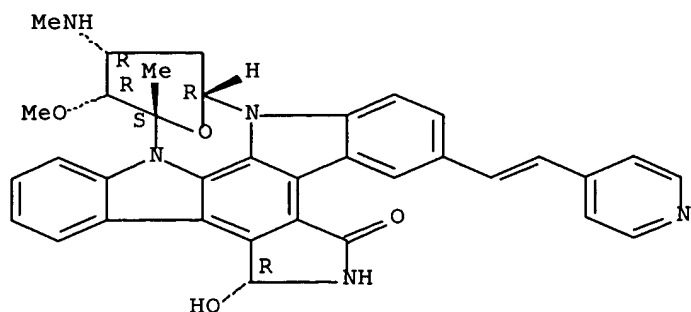
RN 320382-97-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-17-[2-(4-pyridinyl)ethenyl]-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

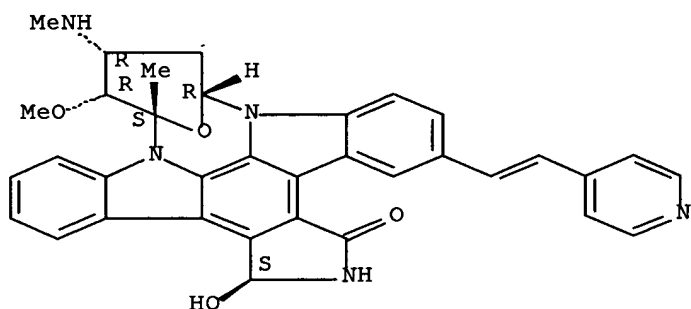
Double bond geometry unknown.





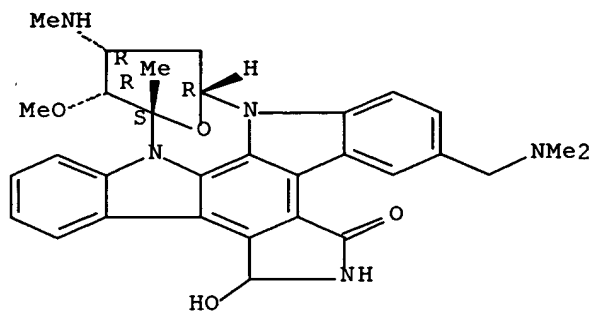
RN 320382-98-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-17-[2-(4-pyridinyl)ethenyl]-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



RN 320383-19-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(dimethylamino)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

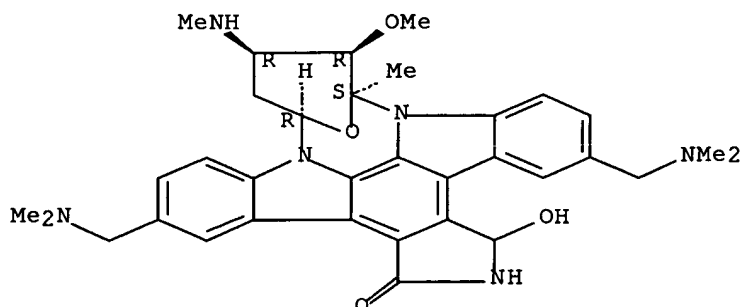
Absolute stereochemistry.



RN 320383-21-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(dimethylamino)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

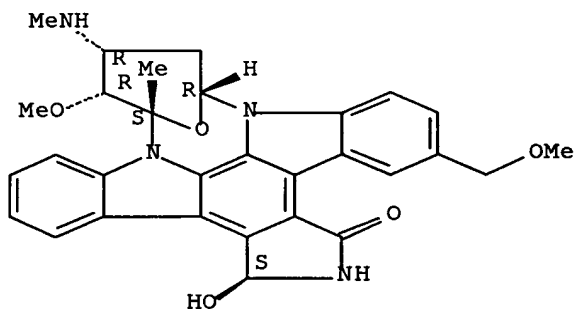
Absolute stereochemistry.



RN 320383-32-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-17-(methoxymethyl)-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

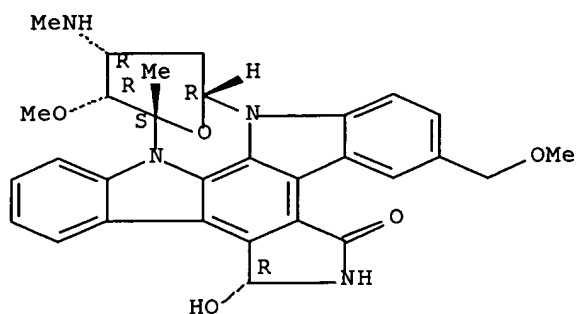
Absolute stereochemistry.



RN 320383-33-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-17-(methoxymethyl)-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

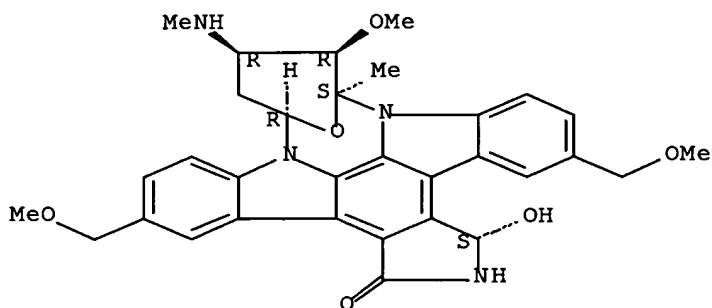
Absolute stereochemistry.



RN 320383-38-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-5,17-bis(methoxymethyl)-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

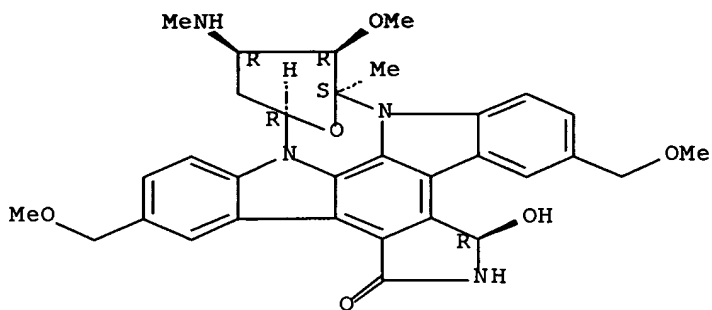
Absolute stereochemistry.



RN 320383-39-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-5,17-bis(methoxymethyl)-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

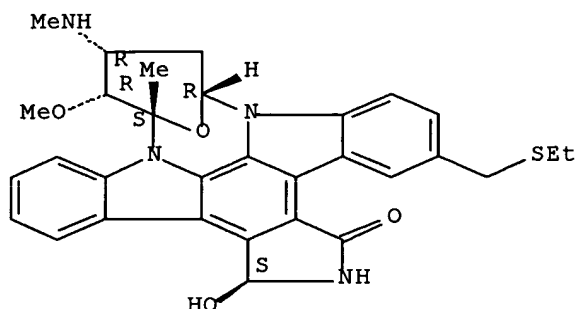
Absolute stereochemistry.



RN 320383-41-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

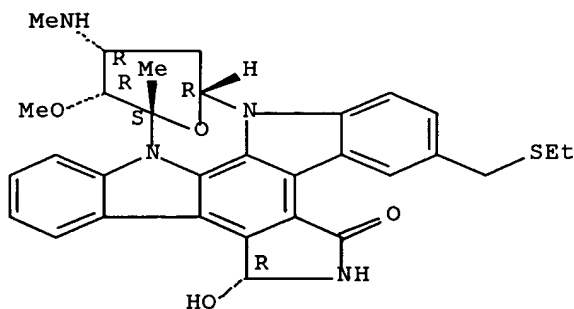
Absolute stereochemistry.



RN 320383-42-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

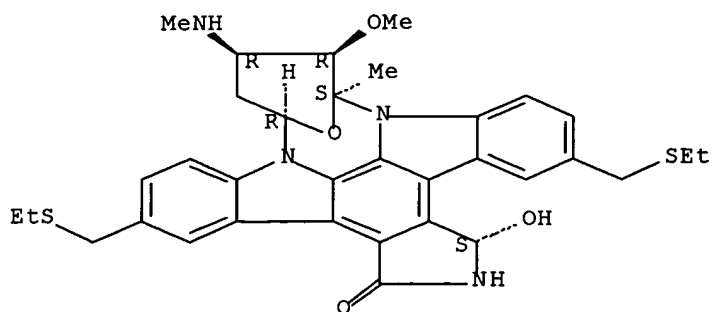
Absolute stereochemistry.



RN 320383-44-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

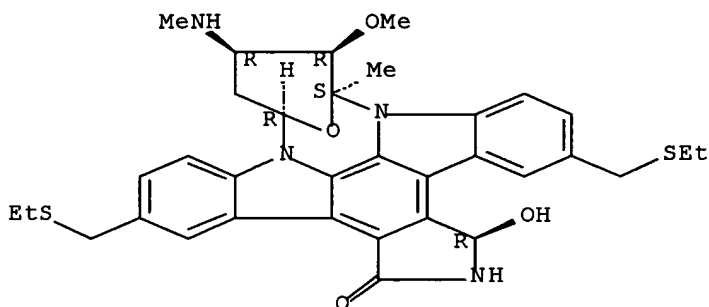
Absolute stereochemistry.



RN 320383-45-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

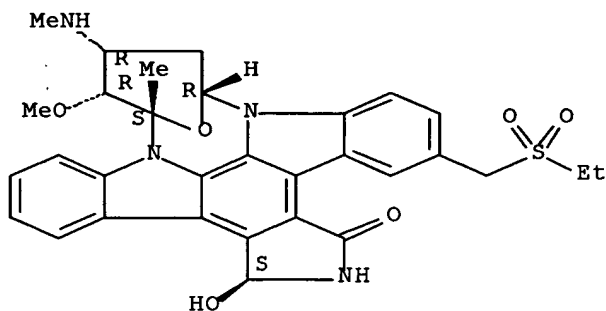
Absolute stereochemistry.



RN 320383-47-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylsulfonyl)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

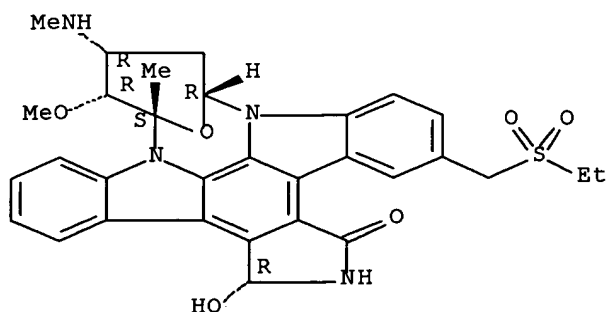


RN 320383-48-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylsulfonyl)methyl]-2,3,10,11,12,13-

hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-,  
(3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

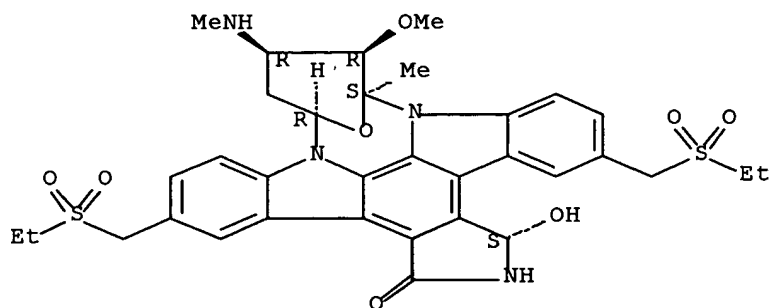
Absolute stereochemistry.



RN 320383-50-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylsulfonyl)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-,  
(3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

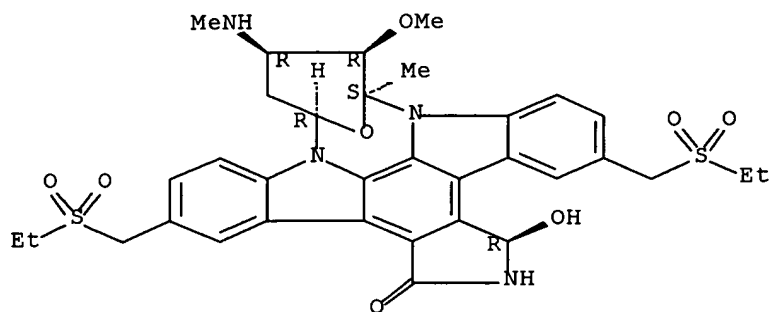
Absolute stereochemistry.



RN 320383-51-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylsulfonyl)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-,  
(3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

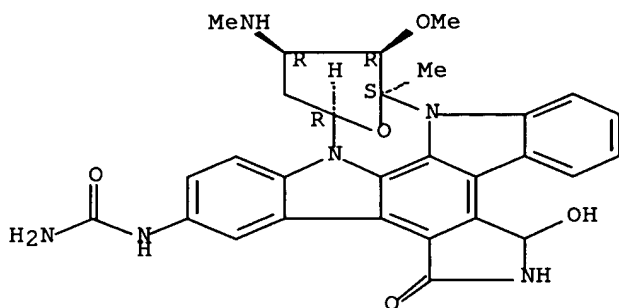
Absolute stereochemistry.



RN 320383-55-9 CAPLUS

CN Urea, [(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

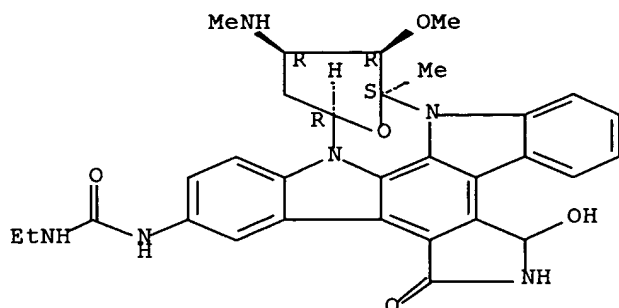
Absolute stereochemistry.



RN 320383-58-2 CAPLUS

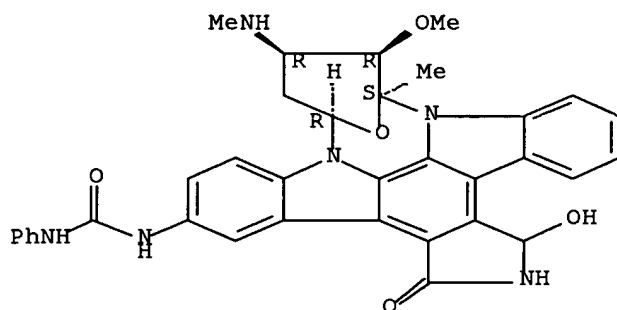
CN Urea, N-ethyl-N'-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



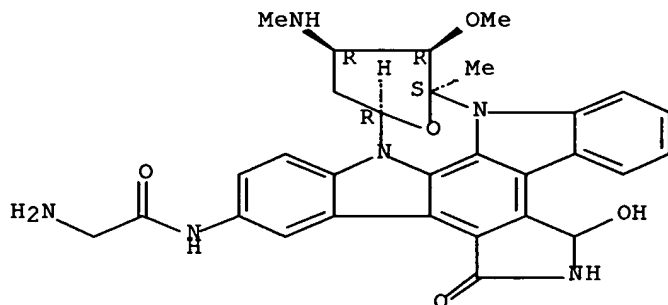
RN 320383-62-8 CAPLUS  
 CN Urea, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-N'-phenyl- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



RN 320383-64-0 CAPLUS  
 CN Acetamide, 2-amino-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

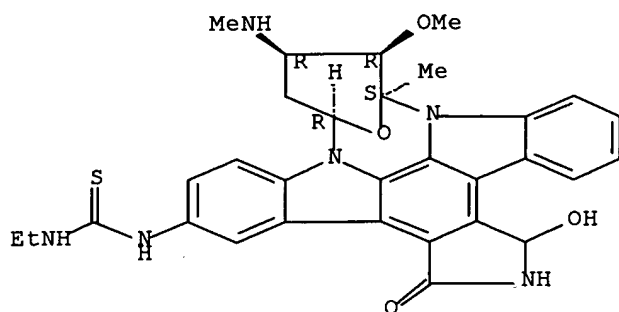
Absolute stereochemistry.



RN 320383-68-4 CAPLUS  
 CN Thiourea, N'-ethyl-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



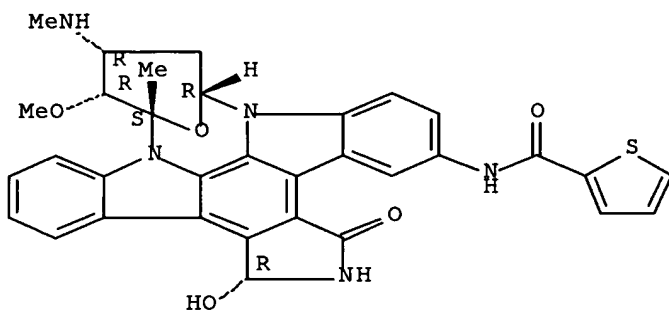


RN 320383-77-5 CAPLUS

CN 2-Thiophenecarboxamide, N-[(1R,9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-

hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

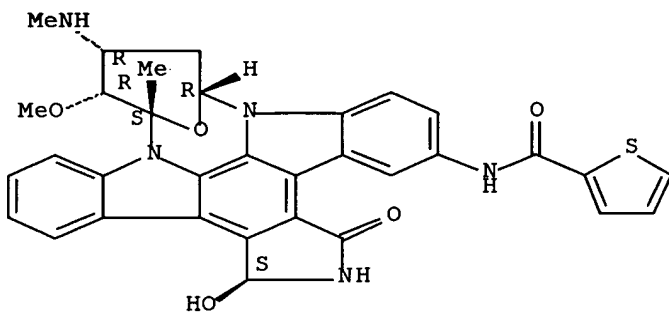


RN 320383-78-6 CAPLUS

CN 2-Thiophenecarboxamide, N-[(1S,9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-

hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-(9CI) (CA INDEX NAME)

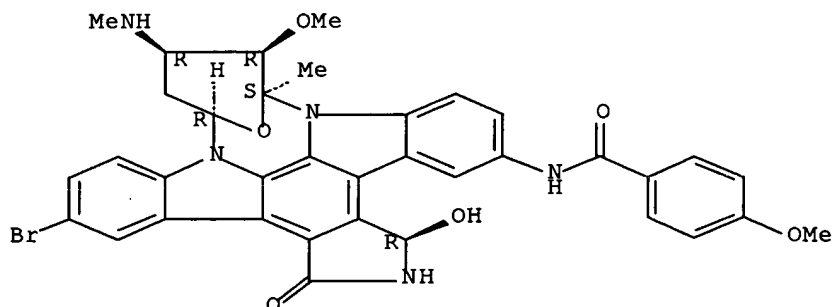
Absolute stereochemistry.



RN 320383-96-8 CAPLUS

CN Benzamide, N-[(3R,9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methoxy- (9CI) (CA INDEX NAME)

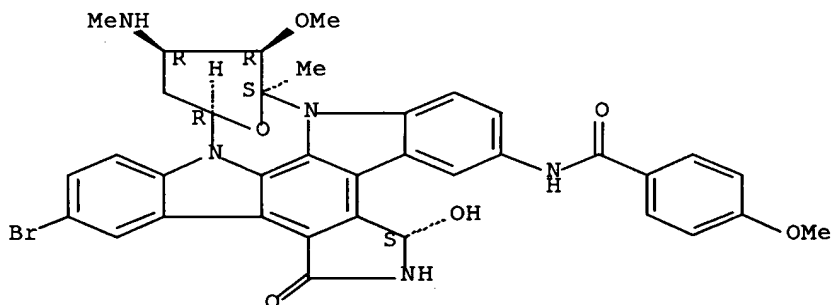
Absolute stereochemistry.



RN 320383-97-9 CAPLUS

CN Benzamide, N-[(3S,9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methoxy- (9CI) (CA INDEX NAME)

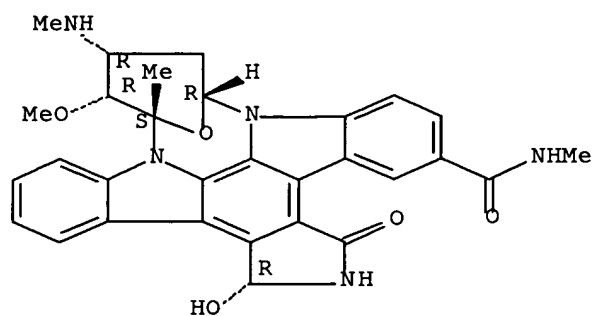
Absolute stereochemistry.



RN 320384-18-7 CAPLUS

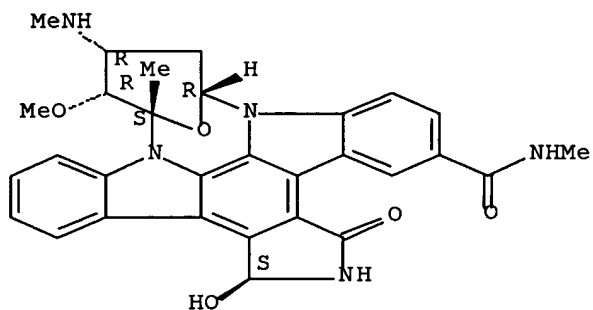
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-N,13-dimethyl-11-(methylamino)-3-oxo-, (1R,9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-20-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-1-  
 hydroxy-  
 12-methoxy-N,13-dimethyl-11-(methylamino)-3-oxo-, (1S,9R,11R,12R,13S)-  
 (9CI) (CA INDEX NAME)

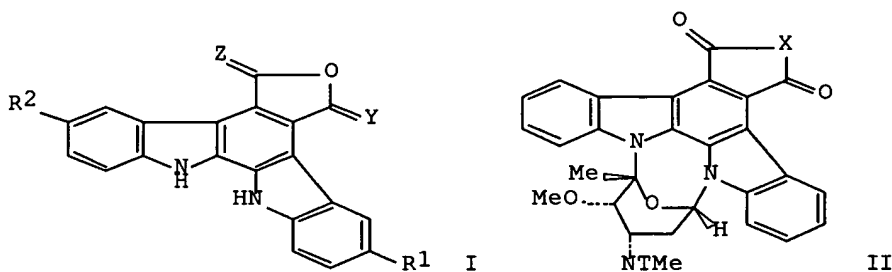
Absolute stereochemistry.



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1994:31003 CAPLUS  
 DN 120:31003  
 TI Preparation of indolocarbazole derivatives as antitumor agents  
 IN Yamada, Rintaro; Hayashi, Yoshiharu  
 PA Asahi Chemical Ind, Japan  
 SO Jpn. Kokai Tokkyo Koho, 19 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.       | KIND | DATE     | APPLICATION NO. | DATE     |
|------|------------------|------|----------|-----------------|----------|
| PI   | JP 05140168      | A2   | 19930608 | JP 1991-297072  | 19911113 |
| PRAI | JP 1991-297072   |      | 19911113 |                 |          |
| OS   | MARPAT 120:31003 |      |          |                 |          |
| GI   |                  |      |          |                 |          |



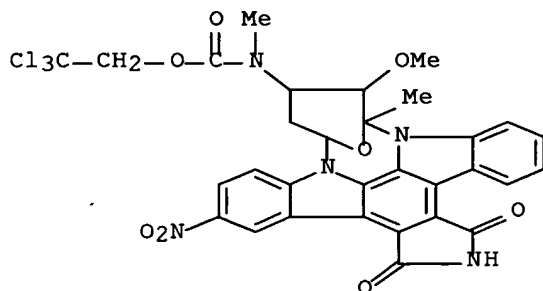
AB The title compds. I (C:z, C:Y = CH<sub>2</sub>, C:O; one of C:Z and C:Y must be Other than CH<sub>2</sub>; R<sub>1</sub>, R<sub>2</sub> = H, nitro, OH, halo, etc.) were prepd. A mixt. of indolocarbazole deriv. II (X = NH; T = Cl<sub>3</sub>C CH<sub>2</sub>O<sub>2</sub>C) and aq. NH<sub>4</sub>OH in MeOH and dioxane was heated at 50.degree. for 3 h. The resulting mixt. was then treated with aq. NaOH at 10.degree. for 3.5 h to give II (X = O; T = Cl<sub>3</sub>CCH<sub>2</sub>O<sub>2</sub>C) (III). Treatment of III with a mixt. of CF<sub>3</sub>CO<sub>2</sub>H and HCl gave, after workup, I (Y = Z = O, R<sub>1</sub> = R<sub>2</sub> = H) (IV). IV at 10 mg/kg showed antitumor activity in mice.

IT 149166-82-5P 149166-84-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);  
 RACT (Reactant or reagent) (prepn. and reaction of, in prepn. of  
 antitumor agent)

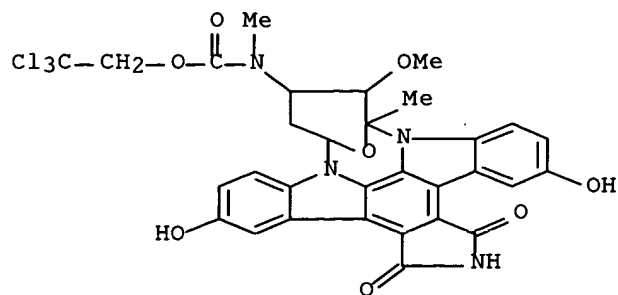
RN 149166-82-5 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-  
 1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester,  
 (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



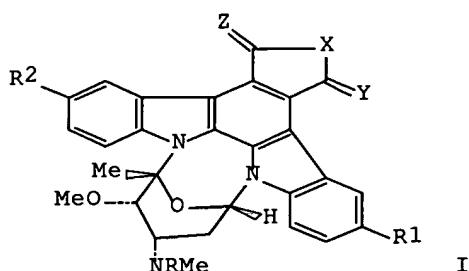
RN 149166-84-7 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1993:517031 CAPLUS  
 DN 119:117031  
 TI Preparation of staurosporine derivatives as blood platelet aggregation inhibitors  
 IN Yamada, Rintaro; Sato, Kazue; Omura, Satoshi; Harigai, Yoshihiro  
 PA Asahi Chemical Industry Co., Ltd., Japan; Kitasato Institute  
 SO Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.        | KIND | DATE     | APPLICATION NO. | DATE     |
|------|-------------------|------|----------|-----------------|----------|
| PI   | JP 04364186       | A2   | 19921216 | JP 1991-163325  | 19910610 |
| PRAI | JP 1991-163325    |      | 19910610 |                 |          |
| OS   | MARPAT 119:117031 |      |          |                 |          |
| GI   |                   |      |          |                 |          |



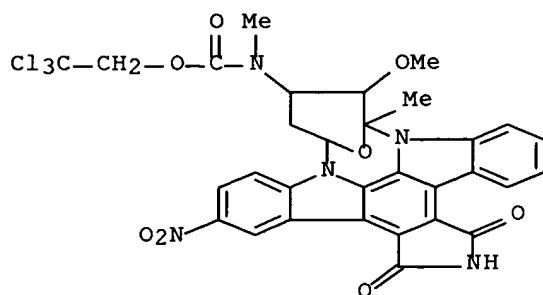
AB Staurosporine derivs. [I; R = H, protecting group; R1, R2 = H, NH2, OH, CH2OH; X = NH, O; Y, Z = 2 H, O, but Y = Z = 2H] are prepd. Protection of staurosporine with ClCO2CH2CCl3 in pyridine gave 82% protected staurosporine I (R = CO2CH2CCl3; R1 = R2 = H, X = NH, Y = O, Z = 2H), which was dissolved in 2,6-lutidine and heated with Ac2O at 140.degree. to give 85% N-Ac deriv. (X = NAc, others remain unchanged) (II). Nitration of II with fuming HNO3 and CF3SO3H in CH2Cl2 gave 91% nitro compd. I (R = CO2CH2CCl3, R1 = NO2, R2 = H, X = NAc, Y = O5, Z = 2 H), which was deacetylated with 85% N2H4, H2O in Me Cellosolve to give 78% I (X = NH, others remain unchanged) (III). Oxidn. of III with Mn(III) acetylacetonate and Me3COOH in Me3COH-1,4-dioxine gave 77% dione I (R = CO2CH2CCl3, R1 = NO2, R2 = H, X = NH, Y = Z = O), which was reduced with Zn/HCl in Me Cellosolve at 0.degree. to give 35% I (R1 = NH2, others remain unchanged) (IV). IV showed excellent inhibition against ADP-induced blood platelet aggregation at 5 .mu.M, vs. no effect with 100 .mu.M aspirin.

IT 149166-82-5P 149166-83-6P 149166-84-7P  
 149166-86-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);  
 RACT (Reactant or reagent) (prepn. and reaction of, in prepn. of blood platelets aggregation inhibitor)

RN 149166-82-5 CAPLUS

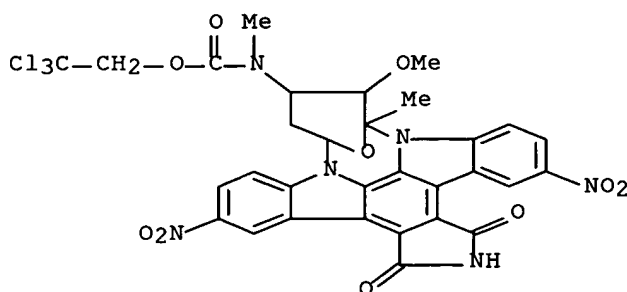
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



RN 149166-83-6 CAPLUS

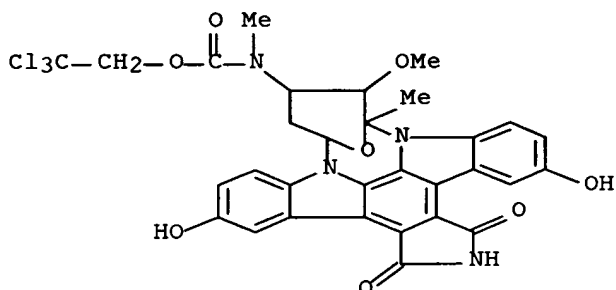
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5,17-dinitro-

1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



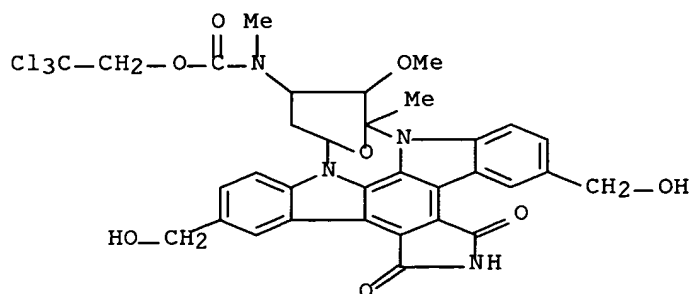
RN 149166-84-7 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



RN 149166-86-9 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)

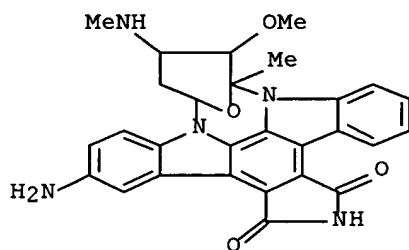


IT 149166-88-1P 149166-89-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, fast blood platelet aggregation inhibitor)

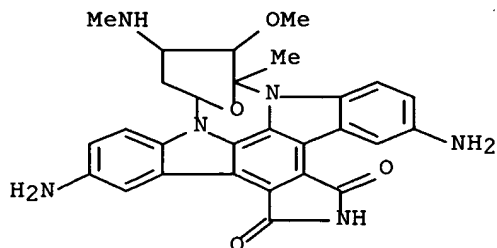
RN 149166-88-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-1,3(2H)-dione, 17-amino-10,11,12,13-tetrahydro-10-methoxy-9-methyl-11-(methylamino)-, (9.alpha.,10.beta.,11.beta.,13.alpha.)-(9CI) (CA INDEX NAME)



RN 149166-89-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-1,3(2H)-dione, 5,17-diamino-10,11,12,13-tetrahydro-10-methoxy-9-methyl-11-(methylamino)-, (9.alpha.,10.beta.,11.beta.,13.alpha.)-(9CI) (CA INDEX NAME)

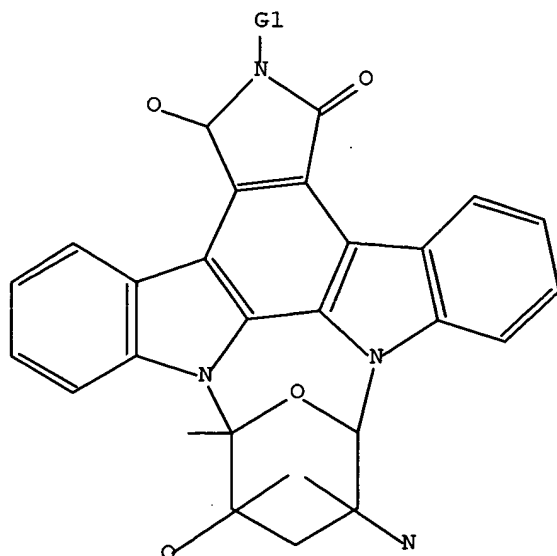




=> d l1; d l5; d his; log y

L1 HAS NO ANSWERS

L1 STR

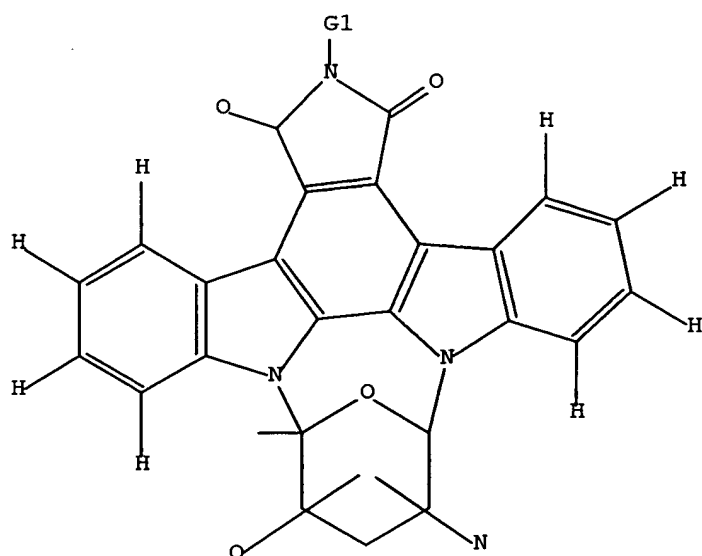


G1 H, Me

Structure attributes must be viewed using STN Express query preparation.

L5 HAS NO ANSWERS

L5 STR



G1 H, Me

Structure attributes must be viewed using STN Express query preparation.

(FILE 'HOME' ENTERED AT 18:50:24 ON 12 DEC 2003)

FILE 'REGISTRY' ENTERED AT 18:50:31 ON 12 DEC 2003

L1 STRUCTURE UPLOADED

L2 8 S L1

L3 146 S L1 FUL

FILE 'CAPLUS' ENTERED AT 18:50:59 ON 12 DEC 2003  
L4 226 S L3

FILE 'STNGUIDE' ENTERED AT 18:51:20 ON 12 DEC 2003

FILE 'REGISTRY' ENTERED AT 18:52:56 ON 12 DEC 2003  
L5 STRUCTURE UPLOADED  
L6 77 S L5 SUB=L3 FUL  
L7 69 S L3 NOT L6

FILE 'CAPLUS' ENTERED AT 18:53:49 ON 12 DEC 2003  
L8 3 S L7

|  |            |         |
|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 14.03      | 198.29  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | -1.95      | -1.95   |

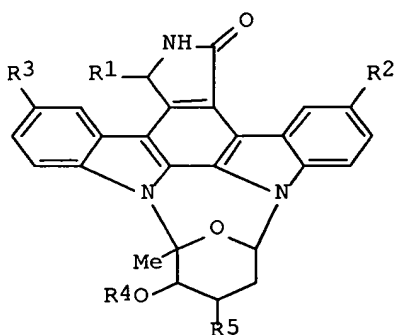
STN INTERNATIONAL LOGOFF AT 18:54:31 ON 12 DEC 2003

540/545

X date

L8 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:728849 CAPLUS  
 DN 137:242161  
 TI Apoptosis inducer  
 IN Murakata, Isamu; Hara, Akinobu; Ishii, Toshihiko; Amishiro, Nobuyoshi  
 PA Kyowa Hakko Kogyo Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.        | KIND | DATE     | APPLICATION NO. | DATE     |
|------|-------------------|------|----------|-----------------|----------|
| PI   | JP 2002275068     | A2   | 20020925 | JP 2001-75357   | 20010316 |
| PRAI | JP 2001-75357     |      | 20010316 |                 |          |
| OS   | MARPAT 137:242161 |      |          |                 |          |
| GI   |                   |      |          |                 |          |



I

AB Staurosporine derivs. or its pharmaceutical acceptable salts as active components of apoptosis inducers are offered. General structure I (R1 = H, hydroxy or low-grade alkoxy, R2 = H, low-grade alkyl, low-grade alkenyl, low-grade alkadienyl, low-grade alkynyl, aryl, complex ring group, halogen, nitro, formyl, COR6, NR11R12 or OR14, R4 = H or low-

grade alkyl, R5 = NR11AR12A, R3 = R2 but R3, R2 .noteq. H at the same time) of staurosporine derivs. and their pharmaceutic acceptable salts as the active components of apoptosis inducers are presented.

IT **460348-72-5P 460348-73-6P 460348-74-7P**  
**460348-75-8P 460348-76-9P 460348-77-0P**  
**460348-78-1P**

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (apoptosis inducer as antitumor agent)

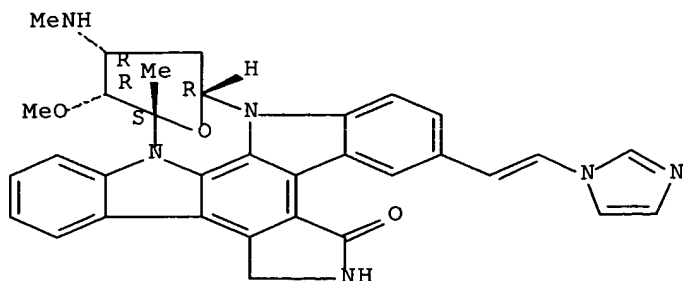
RN 460348-72-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-[2-(1H-  
 imidazol-1-yl)ethenyl]-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

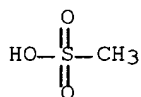
CRN 320382-93-2  
CMF C33 H30 N6 O3

Absolute stereochemistry.  
Double bond geometry unknown.



CM 2

CRN 75-75-2  
CMF C H4 O3 S

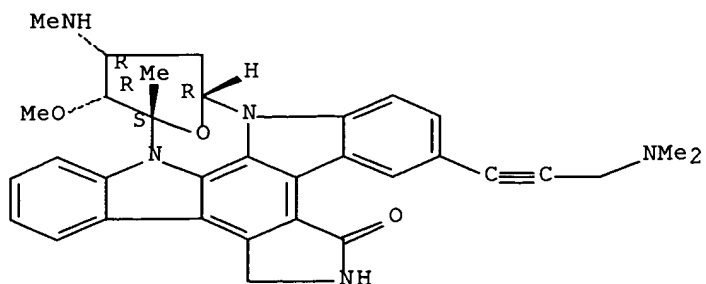


RN 460348-73-6 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)-, 2-hydroxy-1,2,3-propanetricarboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 320382-79-4  
CMF C33 H33 N5 O3

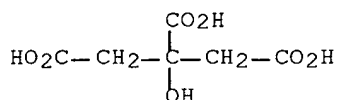
Absolute stereochemistry.



CM 2

CRN 77-92-9

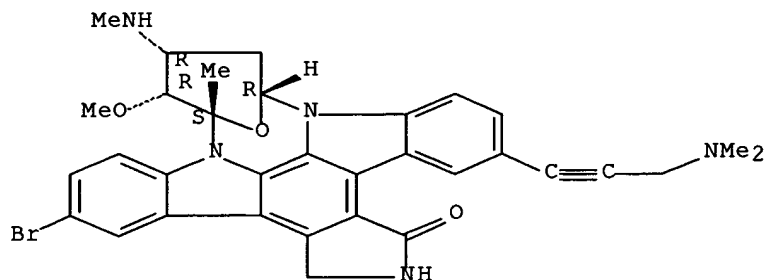
CMF C6 H8 O7



RN 460348-74-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5-bromo-17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

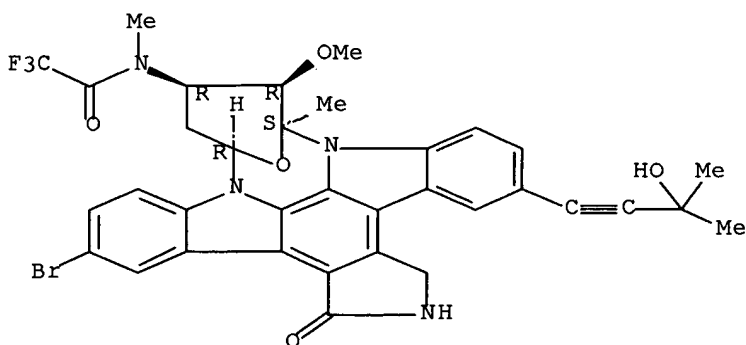
Absolute stereochemistry.



RN 460348-75-8 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-5-(3-hydroxy-3-methyl-1-butynyl)-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

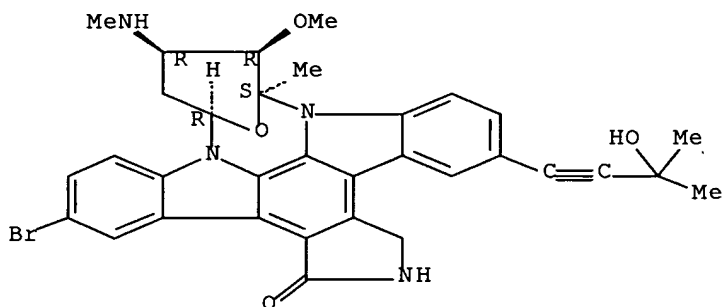
Absolute stereochemistry.



RN 460348-76-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-bromo-2,3,10,11,12,13-hexahydro-5-(3-hydroxy-3-methyl-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

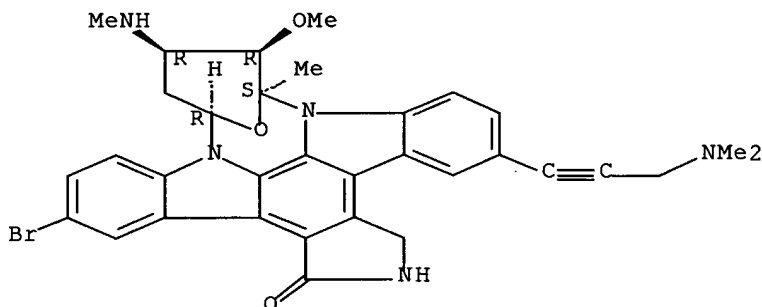
Absolute stereochemistry.



RN 460348-77-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-bromo-5-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

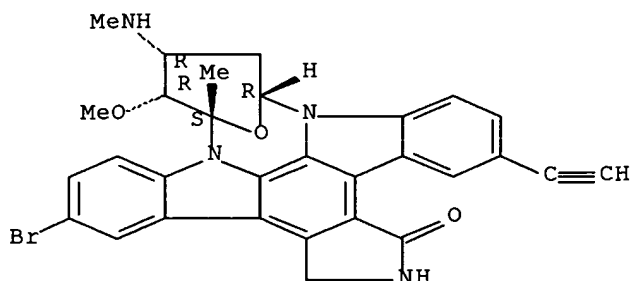


RN 460348-78-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-

j][1,7]benzodiazonin-1-one, 5-bromo-17-ethynyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 320383-01-5 320383-43-5 320383-56-0  
320383-67-3 320384-06-3 320384-08-5  
320384-14-3

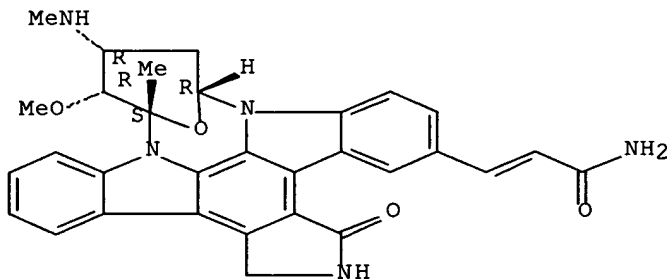
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(apoptosis inducer as antitumor agent)

RN 320383-01-5 CAPLUS

CN 2-Propenamide, 3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

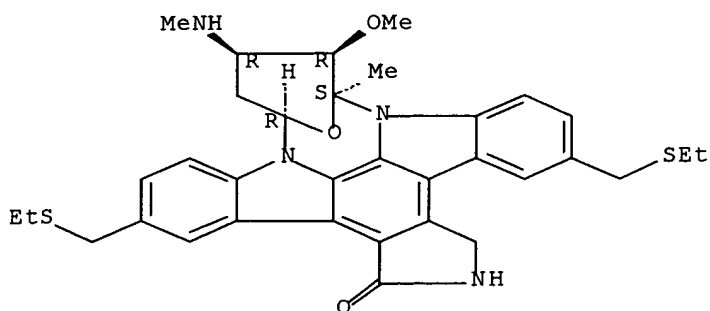
Double bond geometry unknown.



RN 320383-43-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

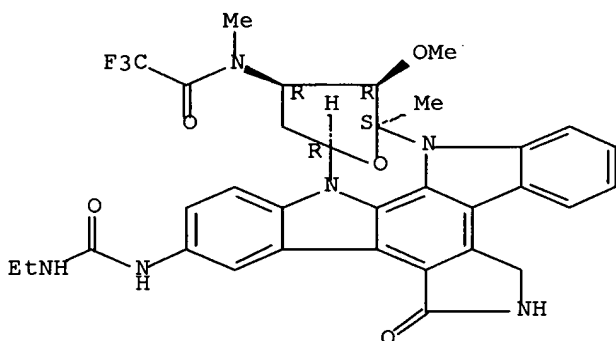
Absolute stereochemistry.



RN 320383-56-0 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-[[ (ethylamino)carbonyl]amino]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

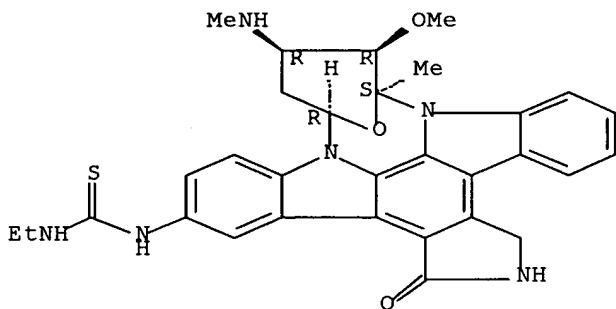
Absolute stereochemistry.



RN 320383-67-3 CAPLUS

CN Thiourea, N'-ethyl-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

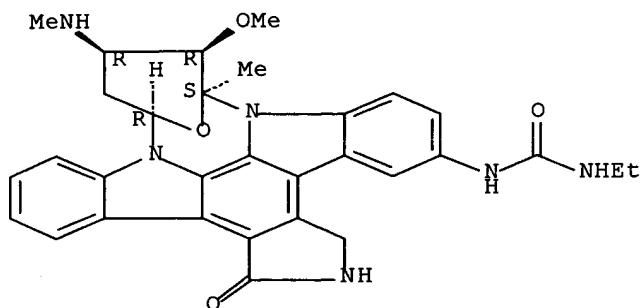


RN 320384-06-3 CAPLUS



CN Urea, N-ethyl-N'-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

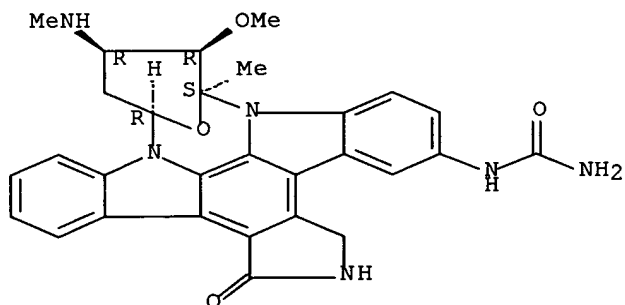
Absolute stereochemistry.



RN 320384-08-5 CAPLUS

CN Urea, [(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

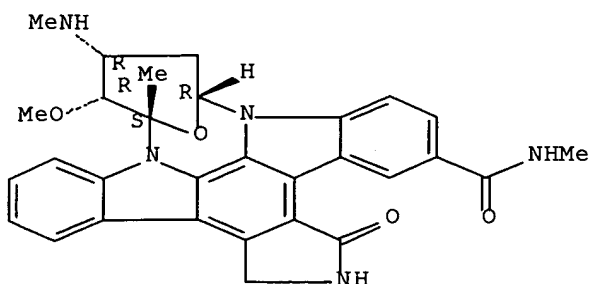
Absolute stereochemistry.



RN 320384-14-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-12-methoxy-N,13-dimethyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



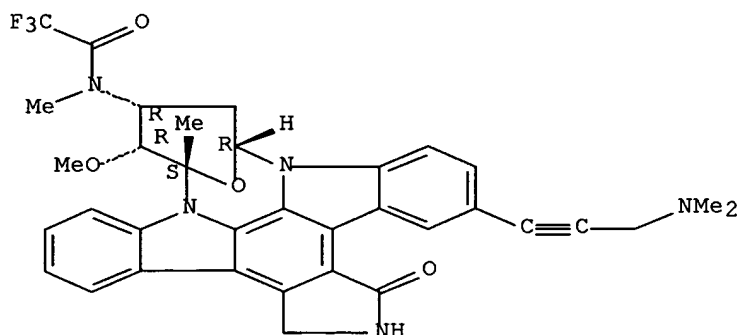
IT 320382-78-3 320382-79-4 320382-93-2  
320384-57-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
(apoptosis inducer as antitumor agent)

RN 320382-78-3 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

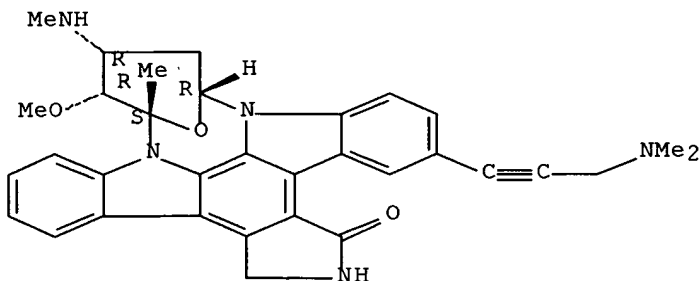
Absolute stereochemistry.



RN 320382-79-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

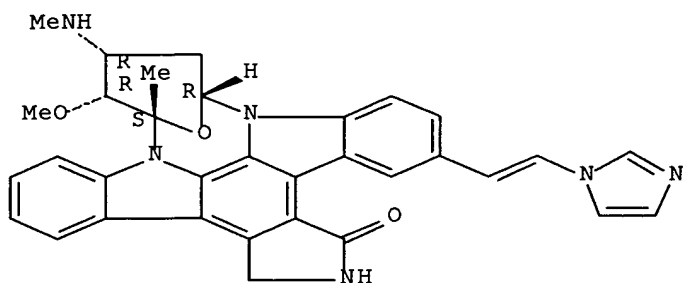
Absolute stereochemistry.



RN 320382-93-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-[2-(1H-imidazol-1-yl)ethenyl]-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)-(9CI)  
(CA INDEX NAME)

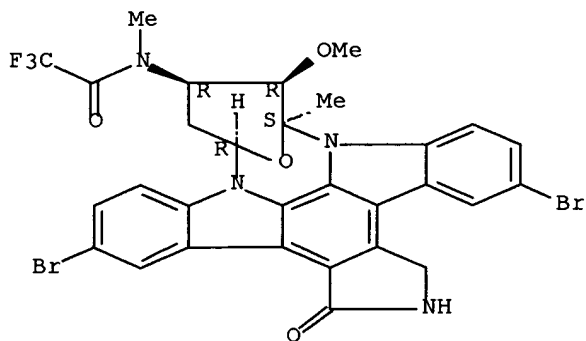
Absolute stereochemistry.  
Double bond geometry unknown.



RN 320384-57-4 CAPLUS

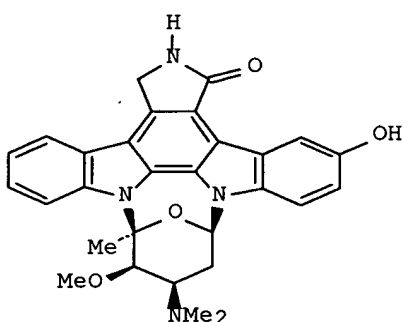
CN Acetamide, N-[(9S,10R,11R,13R)-5,17-dibromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl-(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



x date

L8 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:106533 CAPLUS  
 DN 136:276287  
 TI Further new staurosporine derivatives from the ascidian *Eudistoma toealensis* and its predatory flatworm *Pseudoceros* sp.  
 AU Schupp, Peter; Proksch, Peter; Wray, Victor  
 CS University of New South Wales, Centre for Marine Biofouling and Bio-Innovation, Sydney, 2052, Australia  
 SO Journal of Natural Products (2002), 65(3), 295-298  
 CODEN: JNPRDF; ISSN: 0163-3864  
 PB American Chemical Society  
 DT Journal  
 LA English  
 GI



I

AB Three new indolocarbazole alkaloids, 3-hydroxy-4'-N-methylstaurosporine (e.g. I), 3-hydroxy-4'-N-demethylstaurosporine, and 3'-demethoxy-3'-hydroxy-4'-N-demethylstaurosporine, were isolated from the marine ascidian *Eudistoma toealensis* and its predatory flatworm *Pseudoceros* sp. in addn. to two known staurosporines. The structures were detd. by 1D

and

2D homonuclear and 1H-detected heteronuclear NMR spectroscopy and from comparisons with published data. CD measurements for these five staurosporine derivs., as well as the previously described seven staurosporines, are reported, confirming that all derivs. possess the 2'S,3'R,4'R,6'R configuration.

IT **272766-45-7 320384-51-8 399031-45-9**

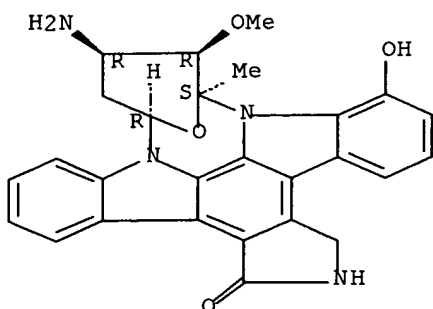
RL: PRP (Properties)  
 (CD measurements of)

RN 272766-45-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 11-amino-2,3,10,11,12,13-hexahydro-7-hydroxy-

10-methoxy-9-methyl-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

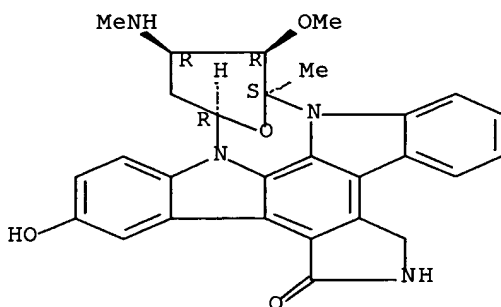
Absolute stereochemistry.



RN 320384-51-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

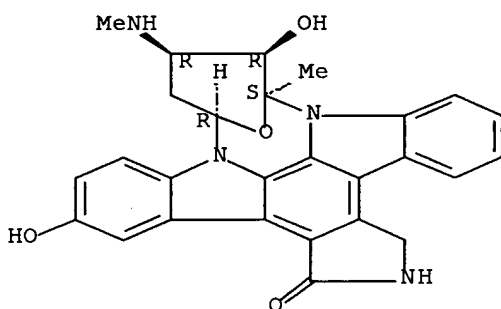
Absolute stereochemistry.



RN 399031-45-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10,17-dihydroxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

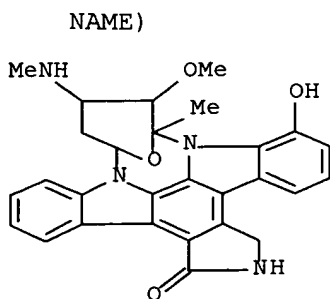


IT **143682-17-1**, 11-Hydroxystaurosporine

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(from ascidian Eudistoma toaealensis and its predatory flatworm  
Pseudoceros sp.)

RN 143682-17-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)



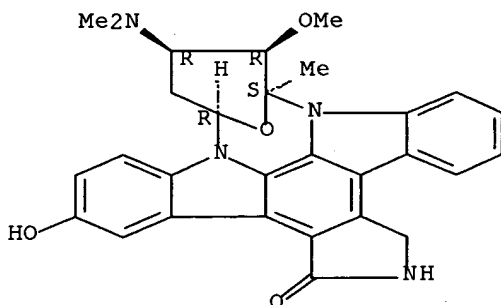
IT 399031-46-0P 406703-29-5P

RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation) (from ascidian *Eudistoma toealensis* and its predatory flatworm *Pseudoceros* sp.)

RN 399031-46-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 11-(dimethylamino)-2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-9-methyl-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

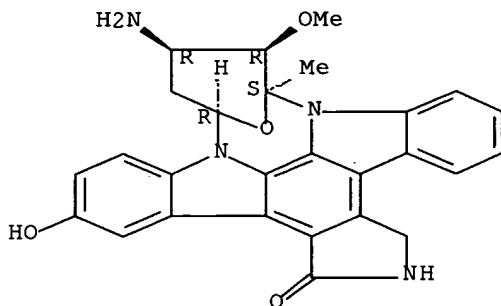
Absolute stereochemistry.



RN 406703-29-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 11-amino-2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-9-methyl-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

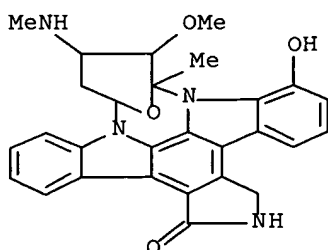
Absolute stereochemistry.



RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

X     date

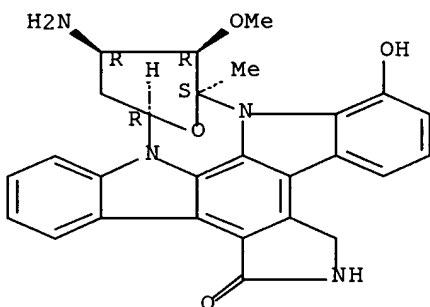
L8 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:794768 CAPLUS  
 DN 136:177460  
 TI Anti-proliferative effects of new staurosporine derivatives isolated  
 from  
 a marine ascidian and its predatory flatworm  
 AU Schupp, P.; Steube, K.; Meyer, C.; Proksch, P.  
 CS Center for Marine Biofouling and Bio-Innovation, University of New South  
 Wales, Sydney, 2052, Australia  
 SO Cancer Letters (Shannon, Ireland) (2001), 174(2), 165-172  
 CODEN: CALEDQ; ISSN: 0304-3835  
 PB Elsevier Science Ireland Ltd.  
 DT Journal  
 LA English  
 AB Nine indolocarbazole alkaloids of the staurosporine type, including  
 three  
 new derivs., were evaluated for their potential as inhibitors of cell  
 proliferation and macromol. synthesis. Four derivs. were tested as  
 inhibitors of cell proliferation with twelve human leukemia cell lines  
 and  
 demonstrated powerful antiproliferative activities, with  
 3-hydroxystaurosporine being the most potent. IC50 values were detd.  
 using the cell line MONO-MAC-6 and with an IC50 of 13 ng/mL,  
 3-hydroxystaurosporine turned out to be one of the most active  
 staurosporine-type inhibitors described so far. All derivs., except  
 3-hydroxy-3'-demethoxy-3'-hydroxystaurosporine and 4'-N-  
 methylstaurosporine very strongly reduced RNA and DNA synthesis with  
 3-hydroxystaurosporine again being the strongest inhibitor. Anal. of  
 structure-activity relationships demonstrated that hydroxylation of  
 staurosporine at position 3 of the indolocarbazole moiety caused an  
 increase in anti-proliferative activity, while hydroxylation at carbon  
 11  
 resulted in a decrease in activity. Our results suggest that not only  
 the  
 presence or absence of hydrophilic substitutions, but also the position  
 of  
 the alteration within the mol., is important in the antiproliferative  
 properties of the various staurosporine analogs.  
 IT **143682-17-1, 11-Hydroxystaurosporine 272766-45-7**  
**320384-51-8 399031-45-9 399031-46-0**  
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (antitumor structure activity relationship of staurosporine derivs.  
 isolated from a marine ascidian and predatory flatworm)  
 RN 143682-17-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7-hydroxy-10-  
 methoxy-  
 9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)



RN 272766-45-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 11-amino-2,3,10,11,12,13-hexahydro-7-hydroxy-10-methoxy-9-methyl-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

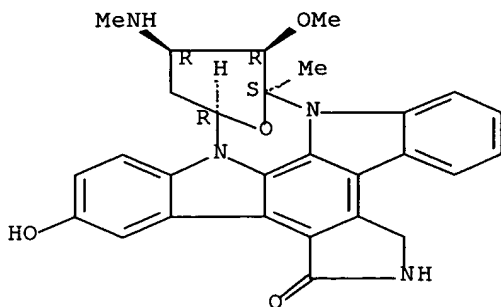
Absolute stereochemistry.



RN 320384-51-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

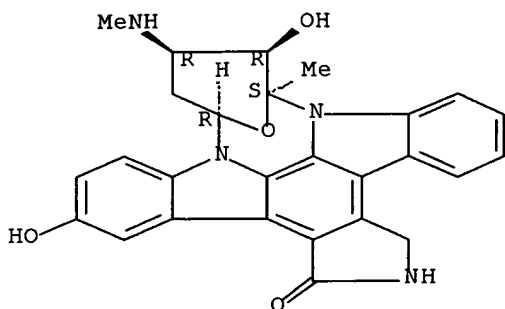


RN 399031-45-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10,17-dihydroxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)



Absolute stereochemistry.

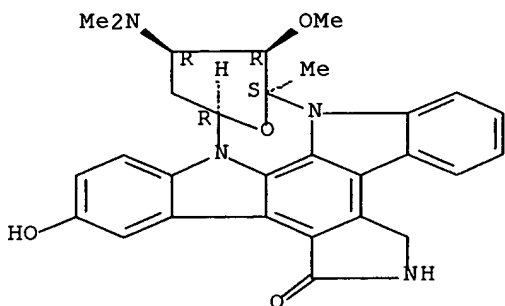


RN 399031-46-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 11-(dimethylamino)-2,3,10,11,12,13-hexahydro-

17-hydroxy-10-methoxy-9-methyl-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

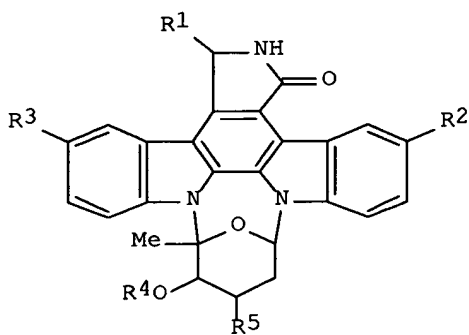


RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

App 15

L8 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:50652 CAPLUS  
 DN 134:116112  
 TI Preparation of staurosporin derivatives as antitumor agents  
 IN Kanai, Fumihiko; Amishiro, Nobuyoshi; Kitamura, Yushi; Murakata, Chikara;  
 Akiyama, Tadakazu; Akinaga, Shiro; Fuse, Eiichi; Kuwabara, Takashi; Yasoshima, Kenichi  
 PA Kyowa Hakko Kogyo Co., Ltd., Japan  
 SO PCT Int. Appl., 190 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | WO 2001004125  | A1   | 20010118 | WO 2000-JP4702  | 20000713 |
|      | W:   |      |          |                 |          |
|      | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |          |
|      | RW:  |      |          |                 |          |
|      | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |      |          |                 |          |
|      | EP 1201668   | A1   | 20020502 | EP 2000-946296  | 20000713 |
|      | R:   |      |          |                 |          |
|      | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL   |      |          |                 |          |
| PRAI | JP 1999-198393   | A    | 19990713 |                 |          |
|      | WO 2000-JP4702   | W    | 20000713 |                 |          |
| OS   | MARPAT 134:116112  |      |          |                 |          |
| GI   |  |      |          |                 |          |



I

AB The title compds. I [R1 is hydrogen, hydroxyl, or lower alkoxy; R2 and  
 R3 are each independently hydrogen, substituted or unsubstituted lower  
 alkyl,  
 substituted or unsubstituted lower alkenyl, substituted or unsubstituted

lower alkynyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, halogeno, nitro, formyl, or the like;

R4

is hydrogen or the like; and R5 is NR<sub>11</sub>AR<sub>12</sub>A (wherein R<sub>11</sub>A and R<sub>12</sub>A are each hydrogen, substituted or unsubstituted lower alkyl, or the like), a proviso is given] are prepd. Compds. of this invention in vitro showed IC<sub>50</sub> values of 0.0051 .mu.mol/L to 0.19 .mu.mol/L against lung cancer cells A-449. I also increase the activity of antitumor agents.

Formulations are given.

IT

320382-30-7P 320382-31-8P 320382-32-9P  
320382-33-0P 320382-34-1P 320382-35-2P  
320382-36-3P 320382-37-4P 320382-38-5P  
320382-39-6P 320382-40-9P 320382-41-0P  
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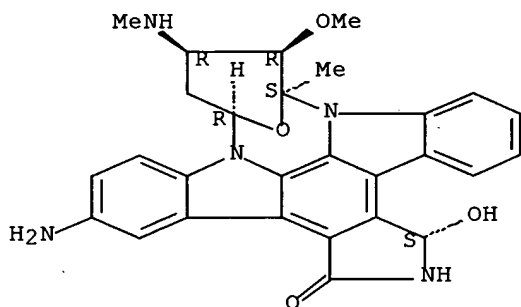
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 320383-95-7P 320383-96-8P 320383-97-9P  
 320383-98-0P 320383-99-1P 320384-00-7P  
 320384-01-8P 320384-02-9P 320384-03-0P  
 320384-04-1P 320384-05-2P 320384-06-3P  
 320384-08-5P 320384-10-9P 320384-11-0P  
 320384-12-1P 320384-14-3P 320384-16-5P  
 320384-18-7P 320384-20-1P 320384-21-2P  
 320384-22-3P 320384-23-4P 320384-24-5P  
 320384-25-6P 320384-26-7P 320384-27-8P  
 320384-28-9P 320384-29-0P 320384-30-3P  
 320384-31-4P 320384-32-5P 320384-33-6P  
 320384-34-7P 320384-35-8P 320384-36-9P  
 320384-37-0P 320384-38-1P

RL: BAC (Biological activity or effector, except adverse); BSU  
 (Biological  
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic  
 use);

BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of staurosporin derivs. as antitumor agents)

RN 320382-30-7 CAPLUS

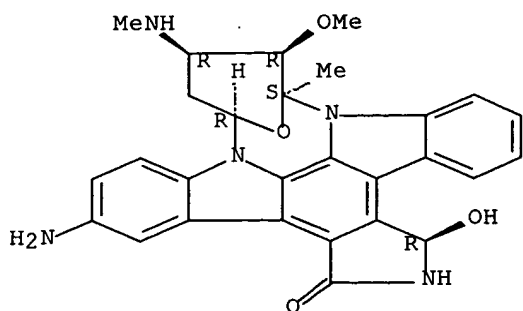
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-3-  
 hydroxy-  
 10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA  
 INDEX NAME)



RN 320382-31-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-3-  
 hydroxy-  
 10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA  
 INDEX NAME)

Absolute stereochemistry.

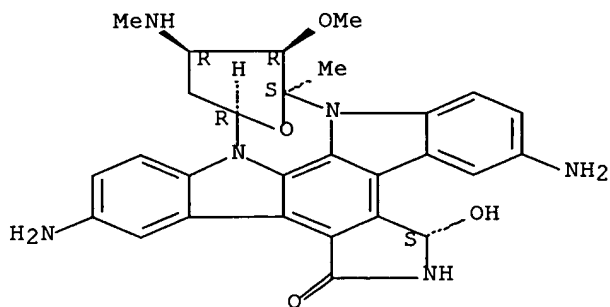


RN 320382-32-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI)

(CA INDEX NAME)

Absolute stereochemistry.

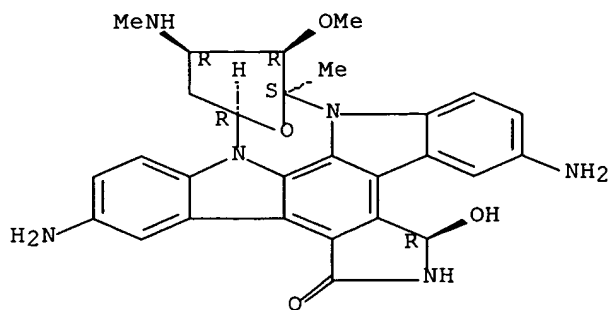


RN 320382-33-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI)

(CA INDEX NAME)

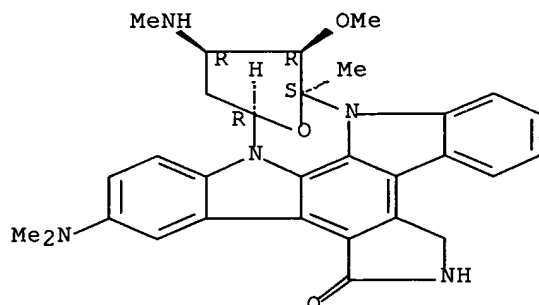
Absolute stereochemistry.



RN 320382-34-1 CAPLUS

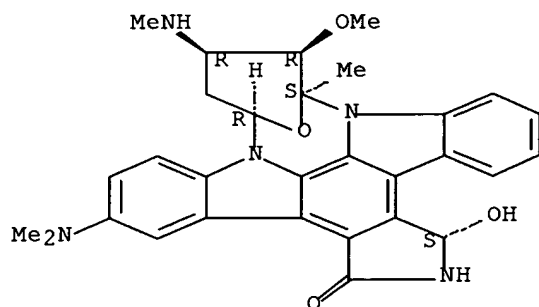
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-(dimethylamino)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



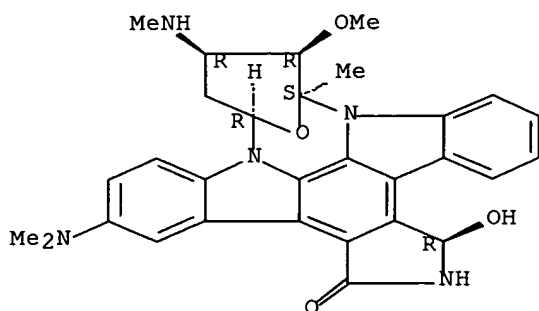
RN 320382-35-2 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-(dimethylamino)-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-36-3 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-(dimethylamino)-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

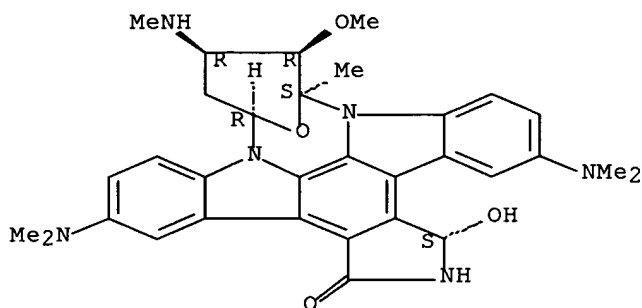
Absolute stereochemistry.



RN 320382-37-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis(dimethylamino)-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

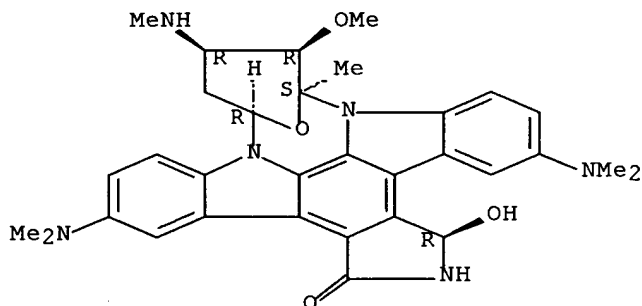
Absolute stereochemistry.



RN 320382-38-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis(dimethylamino)-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

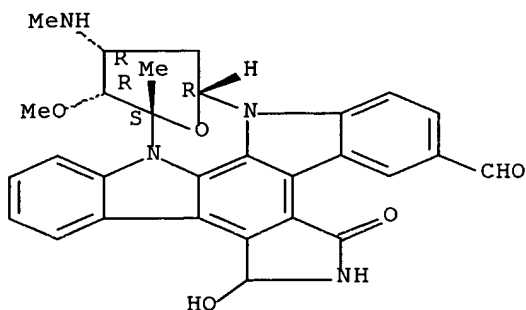


RN 320382-39-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxaldehyde, 2,3,10,11,12,13-hexahydro-1-

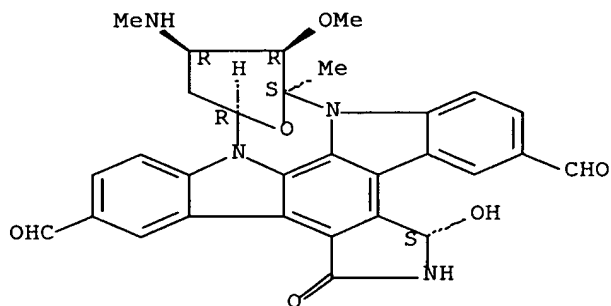
hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-40-9 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxaldehyde, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-1-oxo-, (3S,9S,10R,11R,13R)-  
(9CI) (CA INDEX NAME)

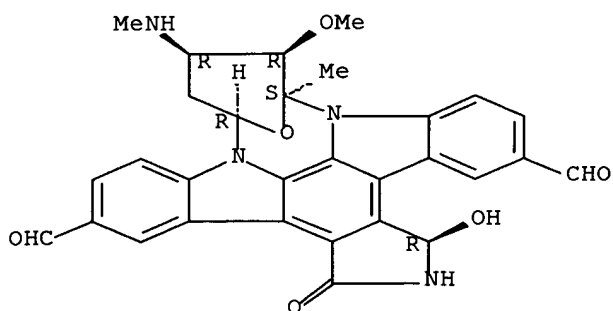
Absolute stereochemistry.



RN 320382-41-0 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxaldehyde, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-1-oxo-, (3R,9S,10R,11R,13R)-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

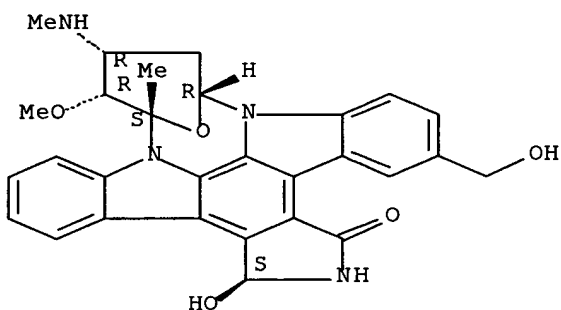




RN 320382-42-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

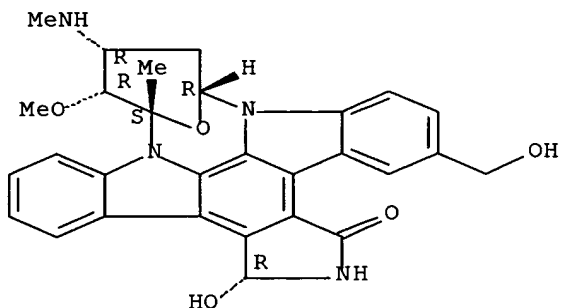
Absolute stereochemistry.



RN 320382-43-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

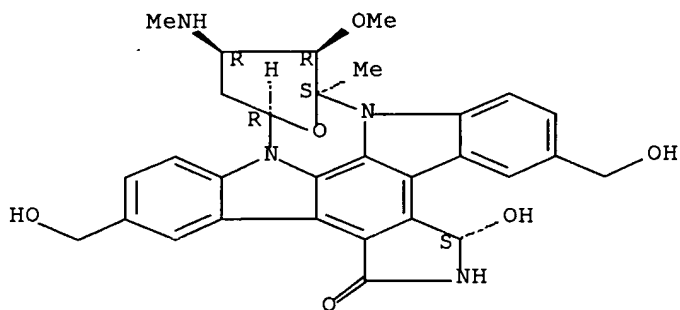


RN 320382-44-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-5,17-(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

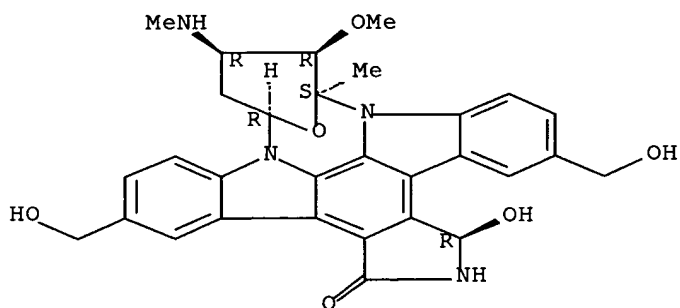
bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-,  
(3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



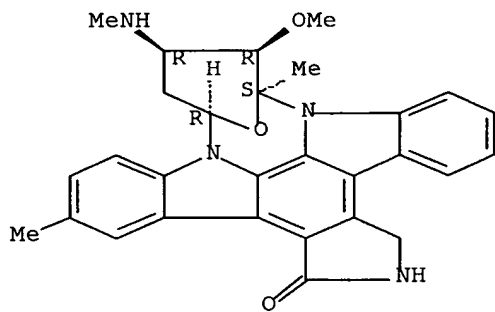
RN 320382-45-4 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-,  
(3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



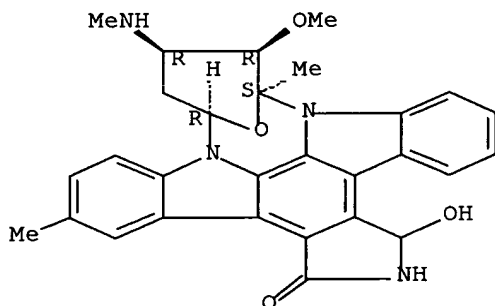
RN 320382-46-5 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9,17-dimethyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



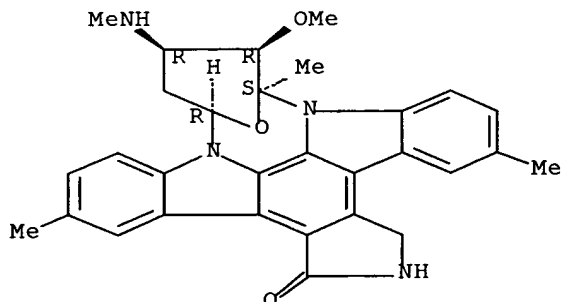
RN 320382-47-6 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9,17-dimethyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



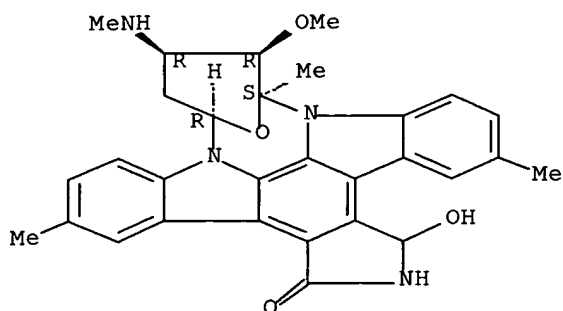
RN 320382-48-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-5,9,17-trimethyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-49-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-5,9,17-trimethyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

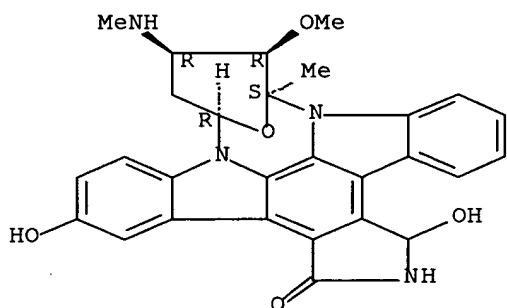
Absolute stereochemistry.



RN 320382-50-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

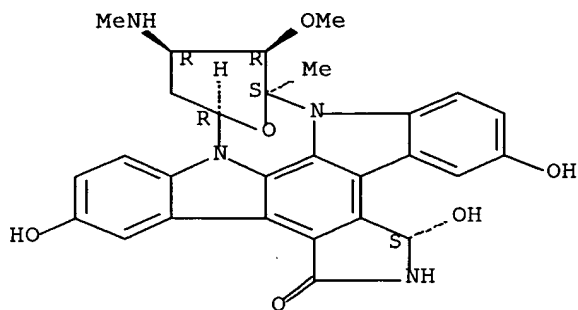
Absolute stereochemistry.



RN 320382-51-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3,5,17-trihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

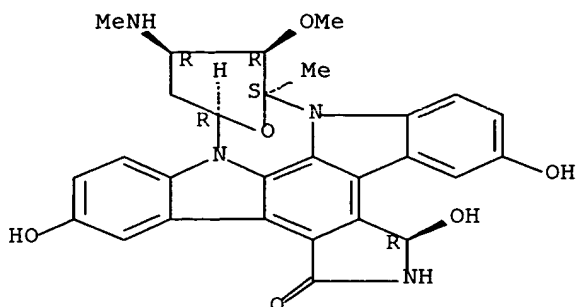
Absolute stereochemistry.



RN 320382-52-3 CAPLUS

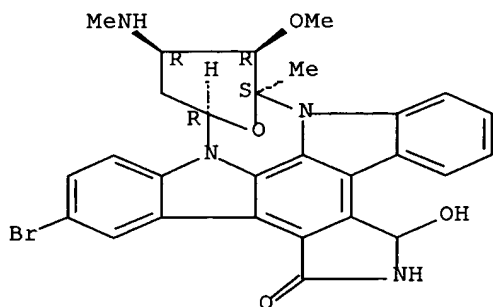
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3,5,17-trihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



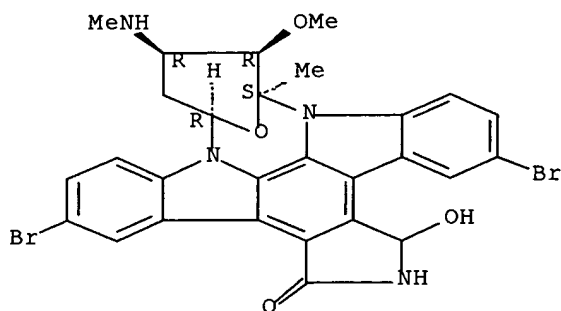
RN 320382-53-4 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-bromo-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-54-5 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-dibromo-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-55-6 CAPLUS

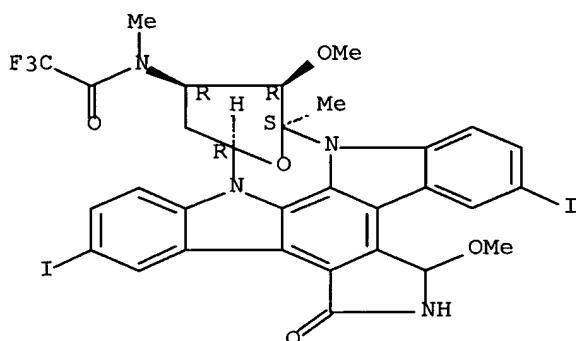
CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-

hexahydro-5,17-diiodo-3,10-dimethoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-

diindolo[1,2,3-

gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI)  
(CA INDEX NAME)

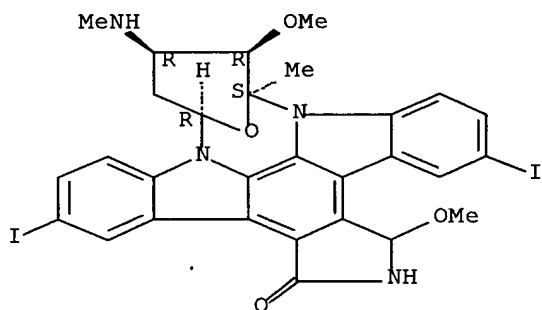
Absolute stereochemistry.



RN 320382-56-7 CAPLUS

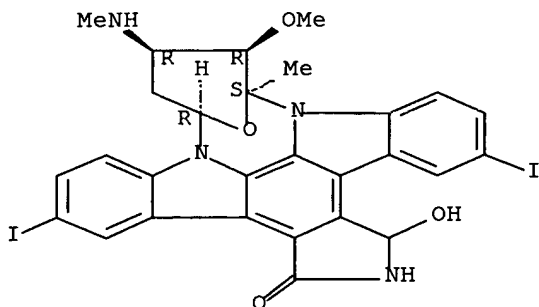
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-diiodo-3,10-dimethoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



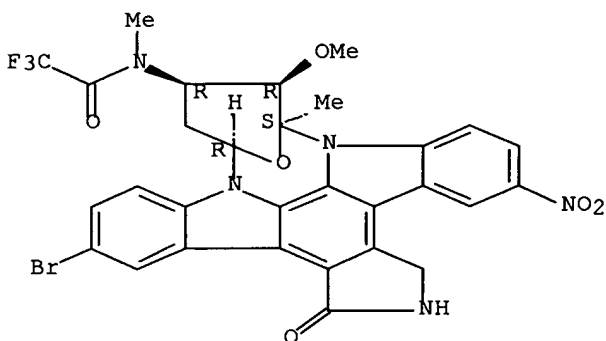
RN 320382-57-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-5,17-diiodo-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



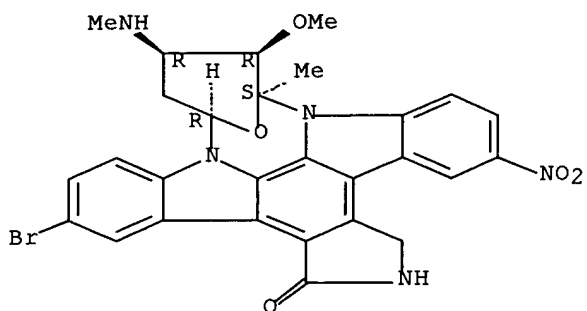
RN 320382-58-9 CAPLUS  
 CN Acetamide, N-[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5-nitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-59-0 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-5-nitro-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-60-3 CAPLUS

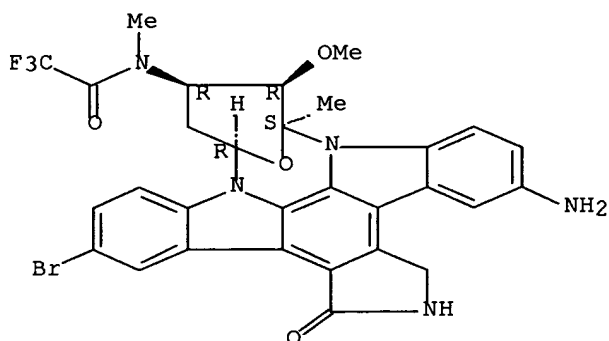
CN Acetamide, N-[(9S,10R,11R,13R)-5-amino-17-bromo-2,3,10,11,12,13-hexahydro-

10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl-

(9CI)

(CA INDEX NAME)

Absolute stereochemistry.



RN 320382-61-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5-amino-2,3,10,11,12,13-hexahydro-3-hydroxy-

10-

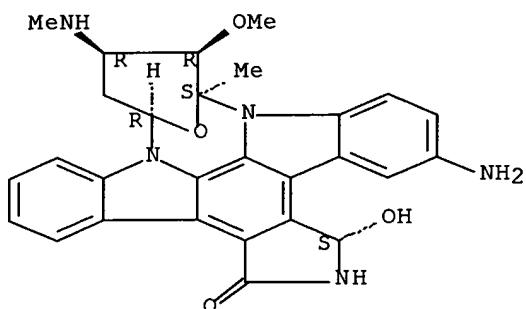
methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA

INDEX

NAME)

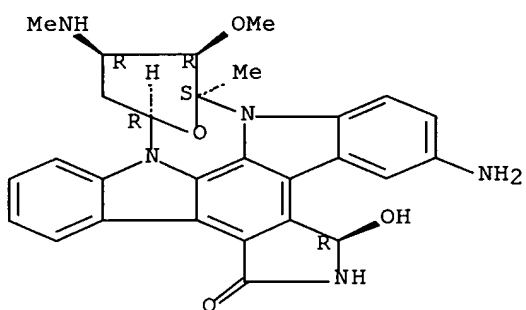
Absolute stereochemistry.





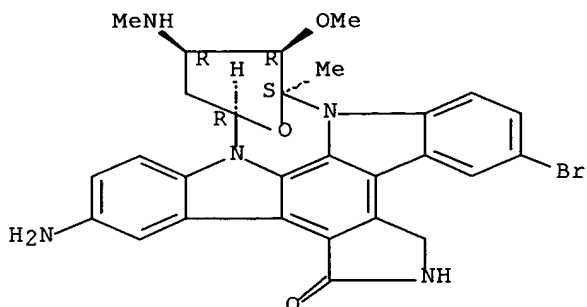
RN 320382-62-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5-amino-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-63-6 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-5-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

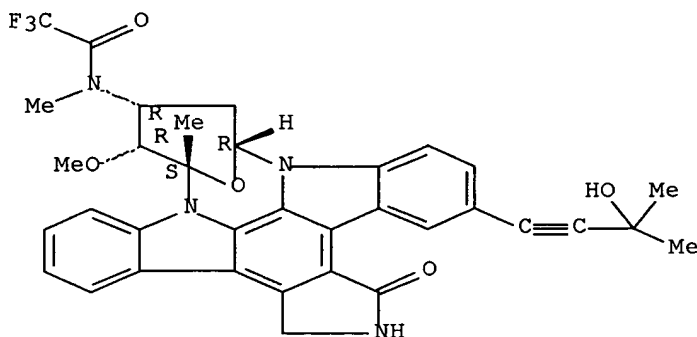


RN 320382-64-7 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-

17-(3-hydroxy-3-methyl-1-butynyl)-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

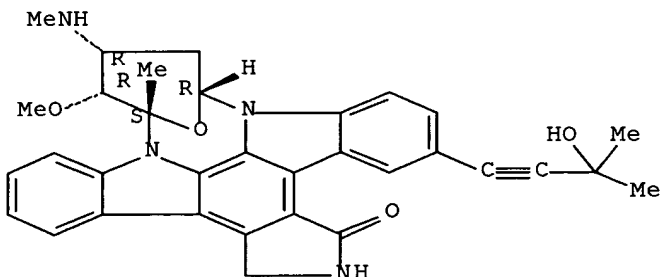
Absolute stereochemistry.



RN 320382-65-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-(3-hydroxy-3-methyl-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

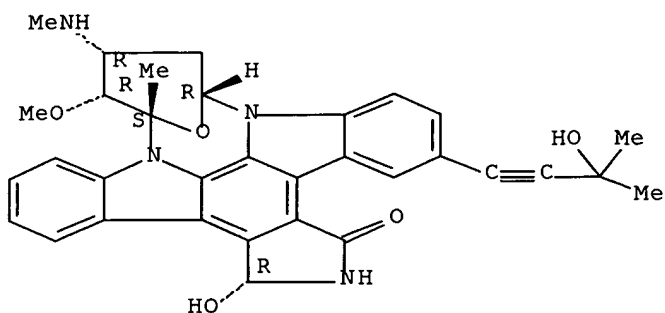
Absolute stereochemistry.



RN 320382-66-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(3-hydroxy-3-methyl-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

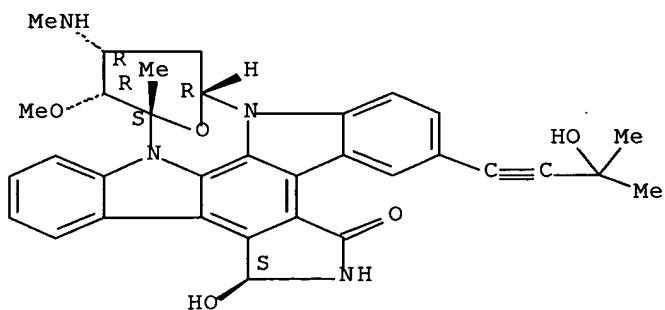
Absolute stereochemistry.



RN 320382-67-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(3-hydroxy-3-methyl-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

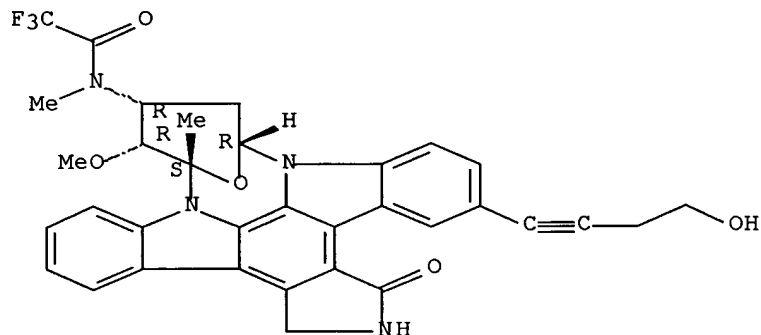
Absolute stereochemistry.



RN 320382-68-1 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-17-(4-hydroxy-1-butynyl)-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

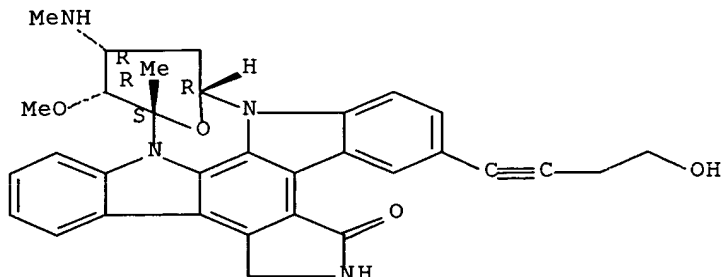
Absolute stereochemistry.



RN 320382-69-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-(4-hydroxy-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI)  
(CA INDEX NAME)

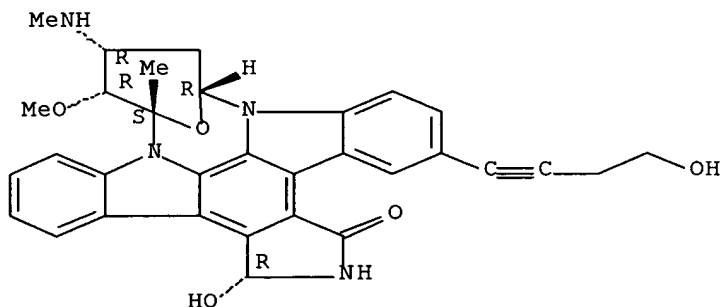
Absolute stereochemistry.



RN 320382-70-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(4-hydroxy-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

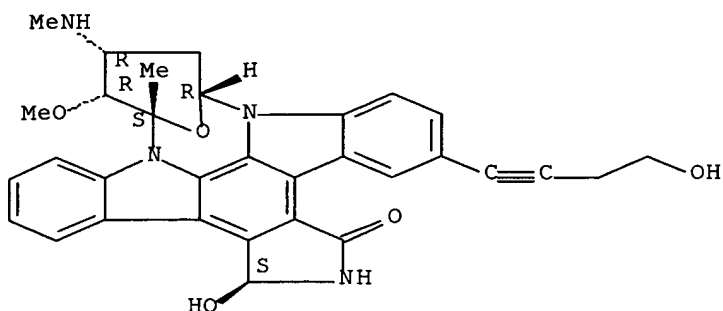
Absolute stereochemistry.



RN 320382-71-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-(4-hydroxy-1-butynyl)-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



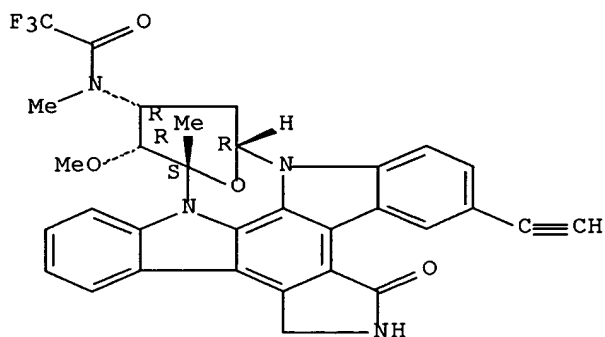
RN 320382-72-7 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-ethynyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl-

(9CI)

(CA INDEX NAME)

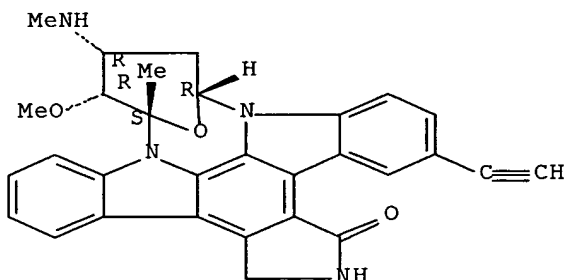
Absolute stereochemistry.



RN 320382-73-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-ethynyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

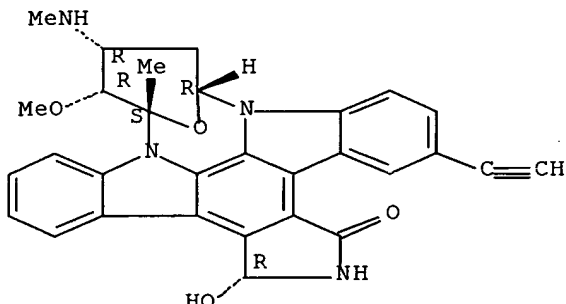


RN 320382-74-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-

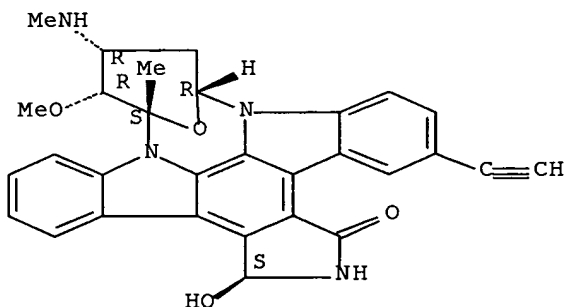
j][1,7]benzodiazonin-1-one, 17-ethynyl-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



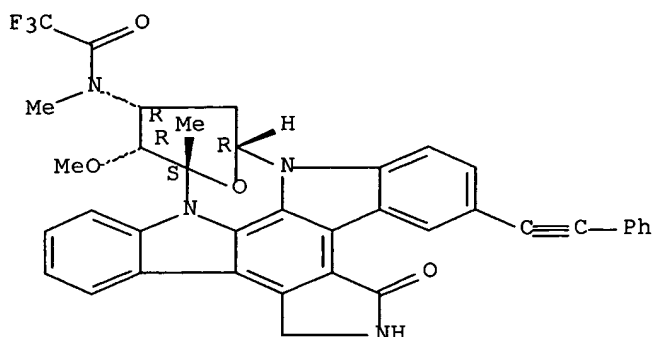
RN 320382-75-0 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-ethynyl-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-76-1 CAPLUS  
CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-(phenylethynyl)-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

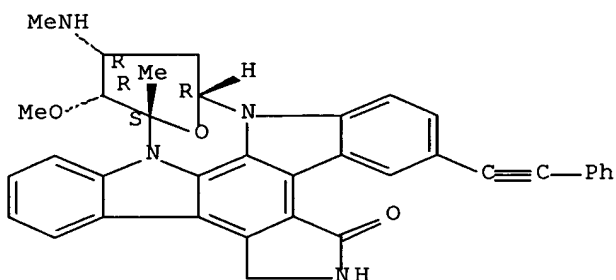


RN 320382-77-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-

11-(methylamino)-17-(phenylethynyl)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

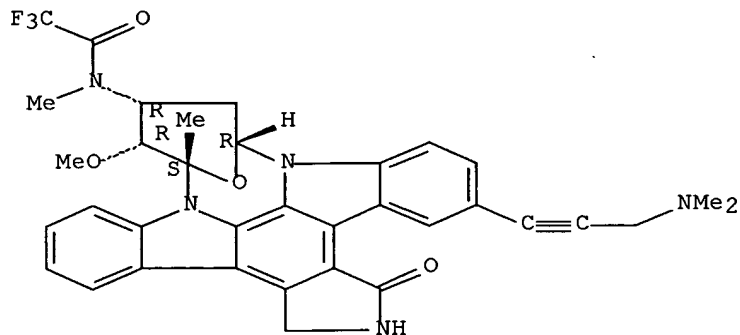
Absolute stereochemistry.



RN 320382-78-3 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

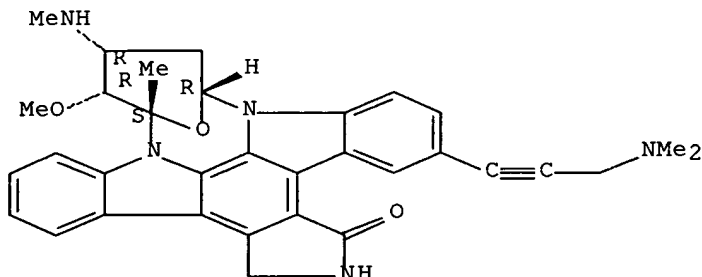
Absolute stereochemistry.



RN 320382-79-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

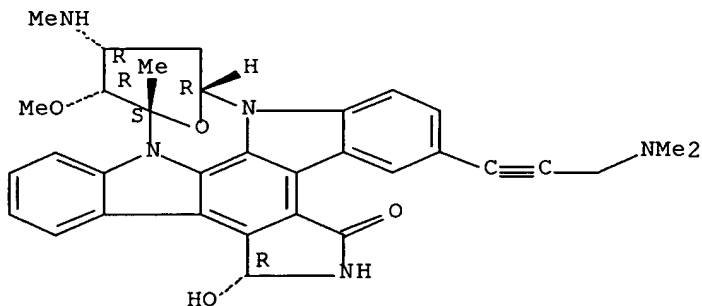
Absolute stereochemistry.



RN 320382-80-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

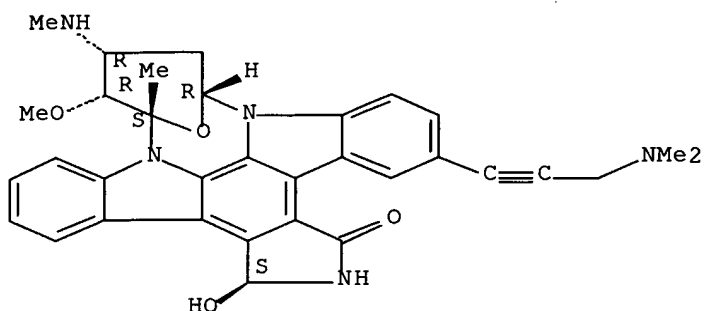


RN 320382-81-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[3-(dimethylamino)-1-propynyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

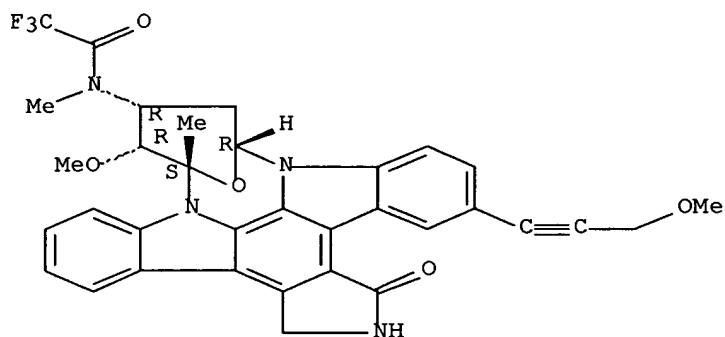




RN 320382-82-9 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-17-(3-methoxy-1-propynyl)-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

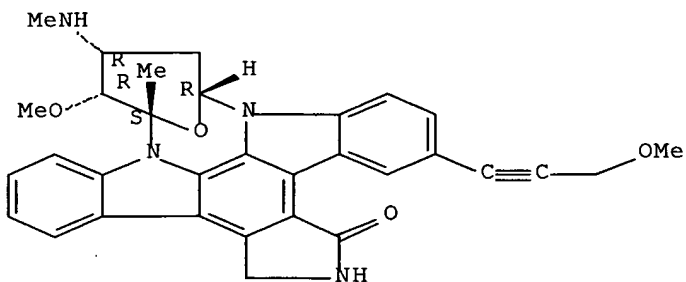
Absolute stereochemistry.



RN 320382-83-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-17-(3-methoxy-1-propynyl)-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320382-84-1 CAPLUS

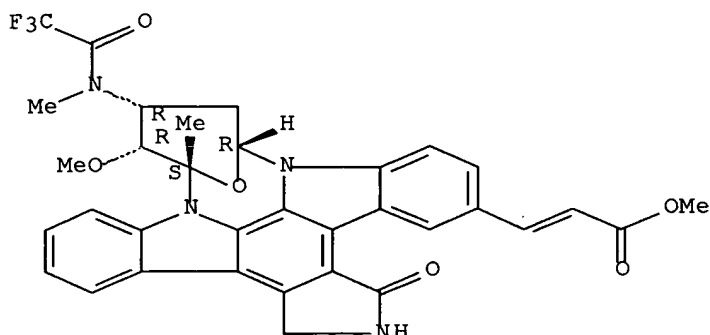
CN 2-Propenoic acid, 3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-

methoxy-

13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



RN 320382-85-2 CAPLUS

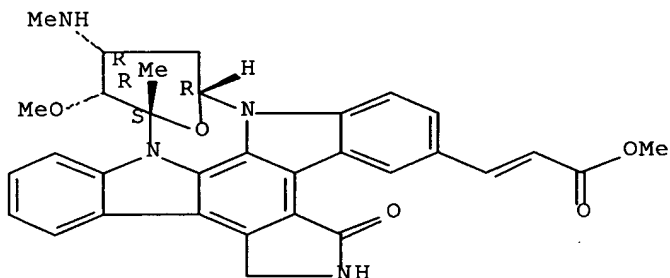
CN 2-Propenoic acid, 3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-

13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-, methyl ester (9CI)

(CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



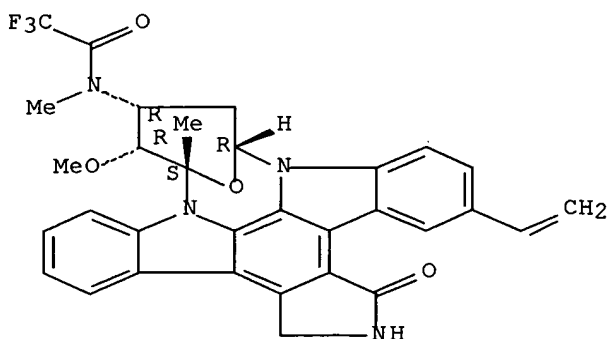
RN 320382-86-3 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-ethenyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl-

(9CI)

(CA INDEX NAME)

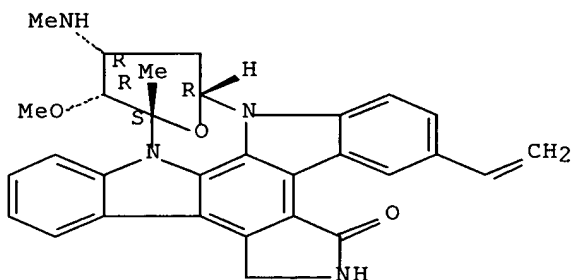
Absolute stereochemistry.



RN 320382-87-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-ethenyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

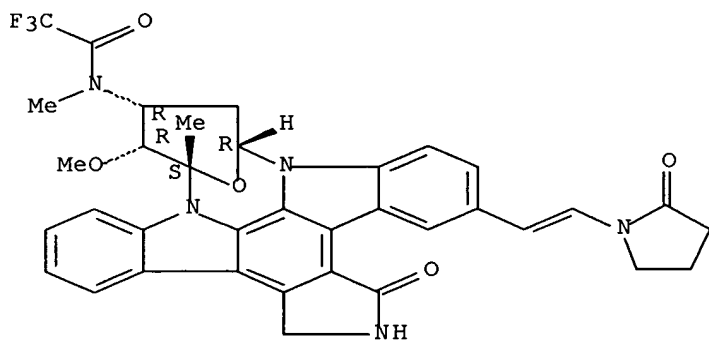


RN 320382-88-5 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[2-(2-oxo-1-pyrrolidinyl)ethenyl]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

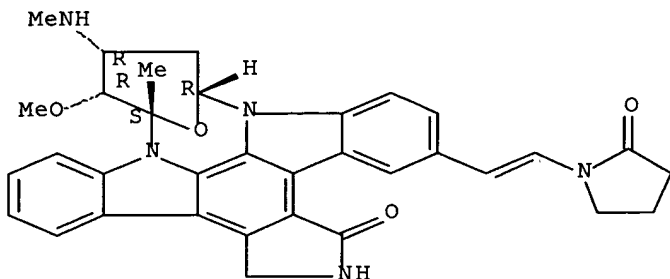
Absolute stereochemistry.

Double bond geometry unknown.



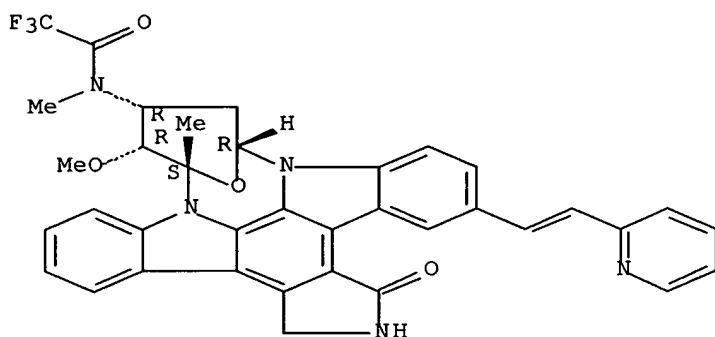
RN 320382-89-6 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[2-(2-oxo-1-pyrrolidinyl)ethenyl]-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



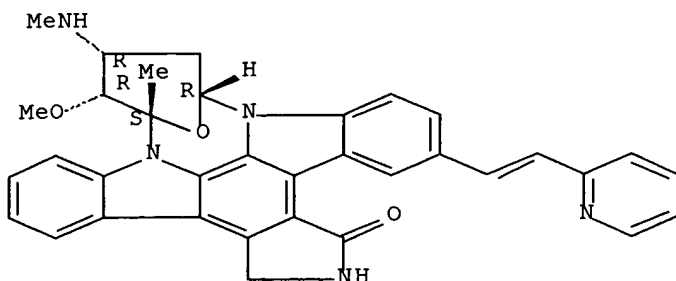
RN 320382-90-9 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[2-(2-pyridinyl)ethenyl]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



RN 320382-91-0 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[2-(2-pyridinyl)ethenyl]-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.

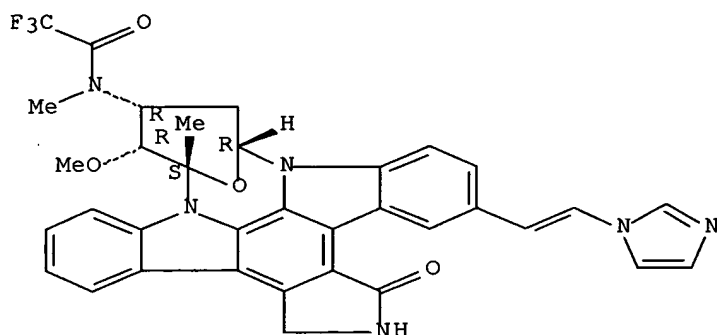


RN 320382-92-1 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-17-[2-(1H-imidazol-1-yl)ethenyl]-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

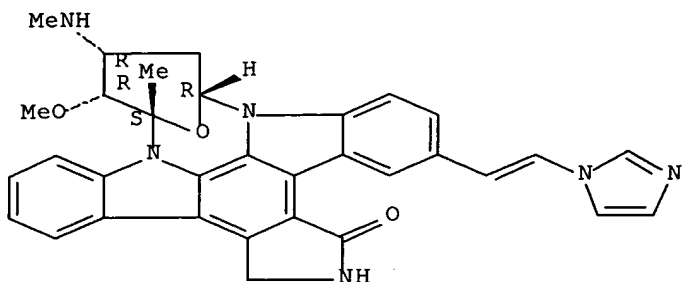


RN 320382-93-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-[2-(1H-imidazol-1-yl)ethenyl]-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

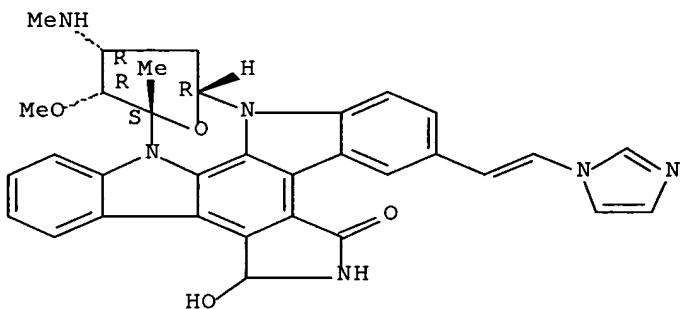


RN 320382-94-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-17-[2-(1H-imidazol-1-yl)ethenyl]-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

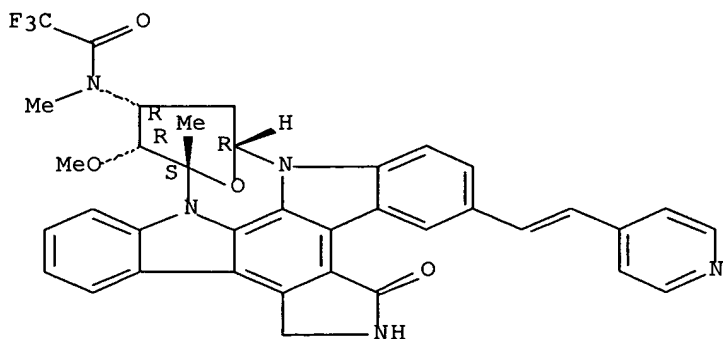


RN 320382-95-4 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[2-(4-pyridinyl)ethenyl]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

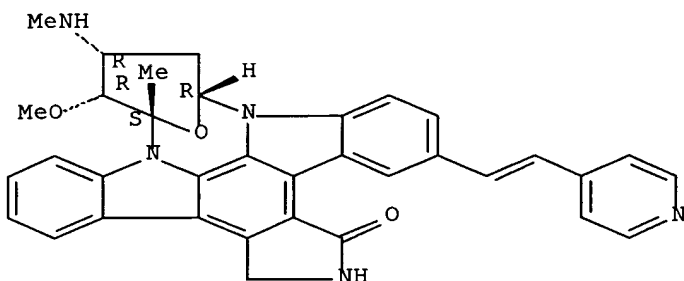
Absolute stereochemistry.

Double bond geometry unknown.



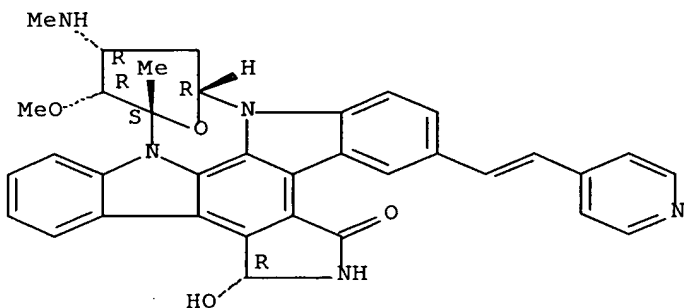
RN 320382-96-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[2-(4-pyridinyl)ethenyl]-, (9S,10R,11R,13R)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



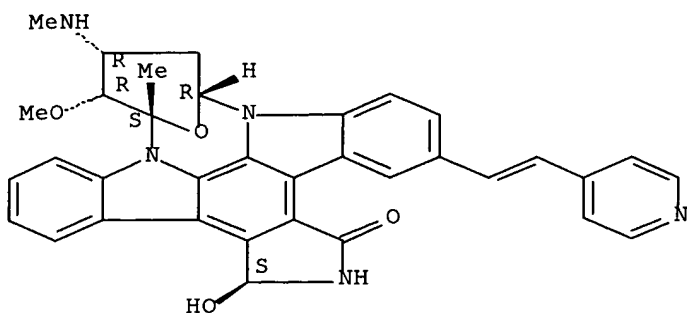
RN 320382-97-6 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-17-[2-(4-pyridinyl)ethenyl]-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



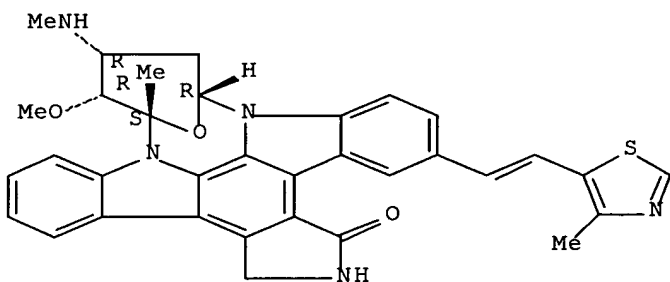
RN 320382-98-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-17-[2-(4-pyridinyl)ethenyl]-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



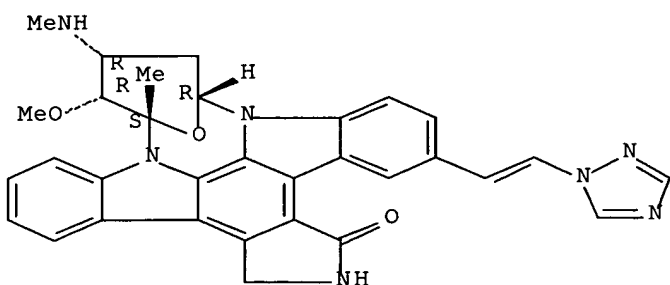
RN 320382-99-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[2-(4-methyl-5-thiazolyl)ethenyl]-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



RN 320383-00-4 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[2-(1H-1,2,4-triazol-1-yl)ethenyl]-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

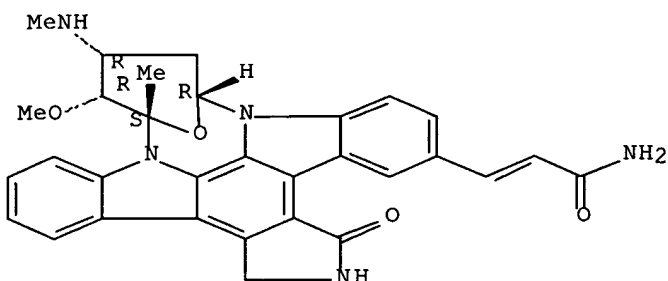
Absolute stereochemistry.  
 Double bond geometry unknown.





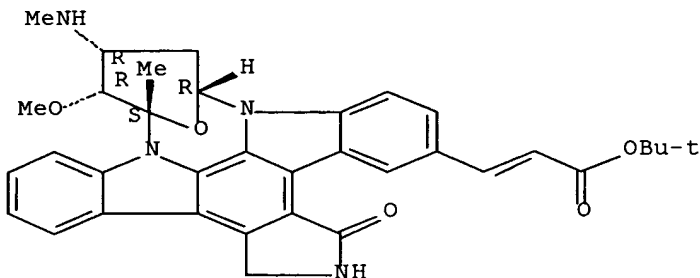
RN 320383-01-5 CAPLUS  
 CN 2-Propenamide, 3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



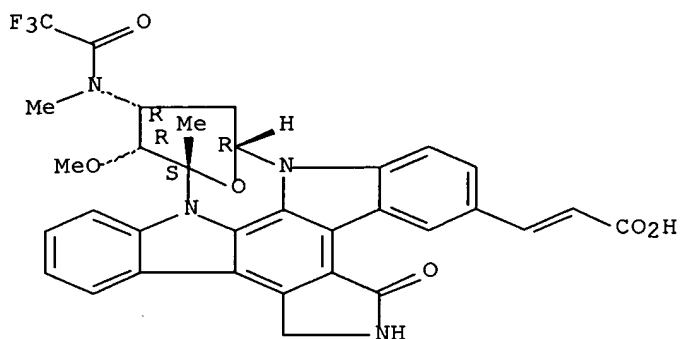
RN 320383-02-6 CAPLUS  
 CN 2-Propenoic acid, 3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



RN 320383-03-7 CAPLUS  
 CN 2-Propenoic acid, 3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

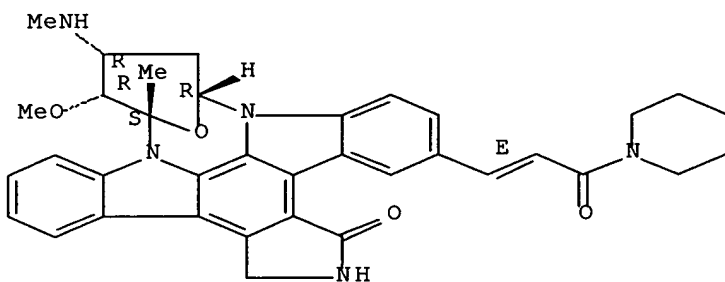
Absolute stereochemistry.  
 Double bond geometry unknown.



RN 320383-04-8 CAPLUS

CN Piperidine, 1-[(2E)-3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-1-oxo-2-propenyl]-(9CI) (CA INDEX NAME)

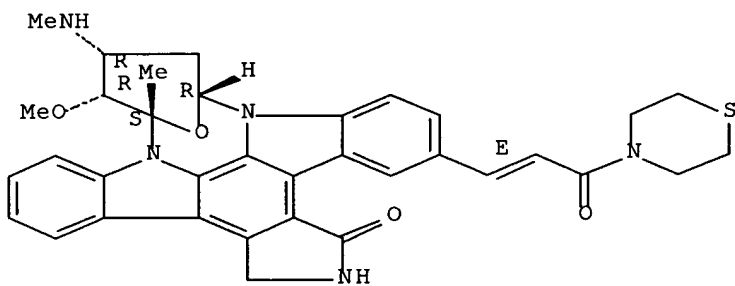
Absolute stereochemistry.  
Double bond geometry as shown.



RN 320383-05-9 CAPLUS

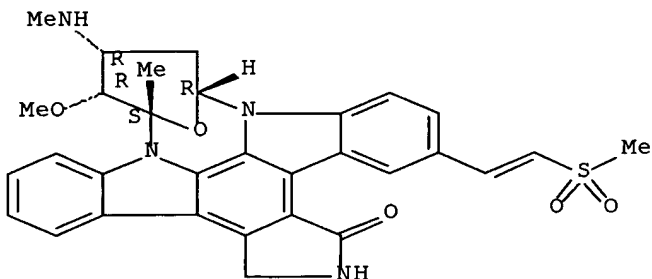
CN Thiomorpholine, 4-[(2E)-3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-1-oxo-2-propenyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



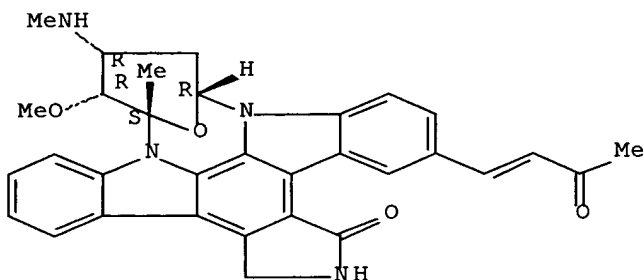
RN 320383-06-0 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[2-(methylsulfonyl)ethenyl]-, (9S,10R,11R,13R)-(9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



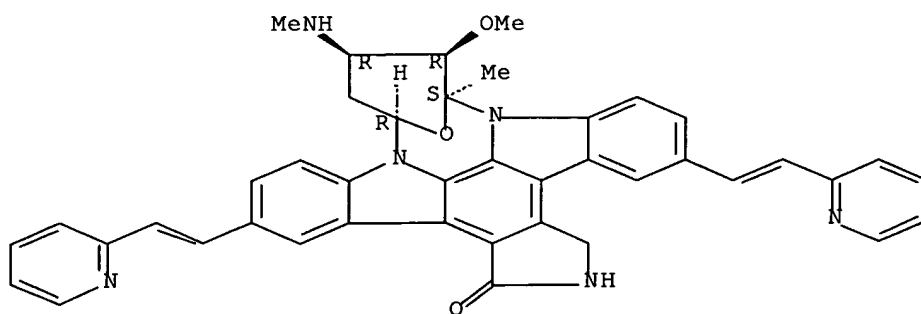
RN 320383-07-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-(3-oxo-1-butenyl)-, (9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



RN 320383-08-2 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-5,17-bis[2-(2-pyridinyl)ethenyl]-, (9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.

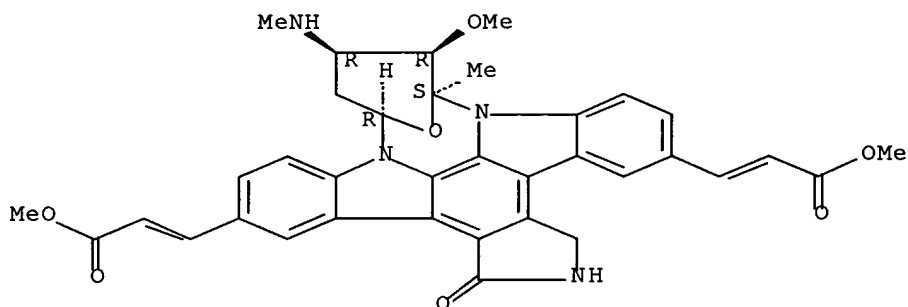


RN 320383-09-3 CAPLUS

CN 2-Propenoic acid, 3,3'-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl]bis-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

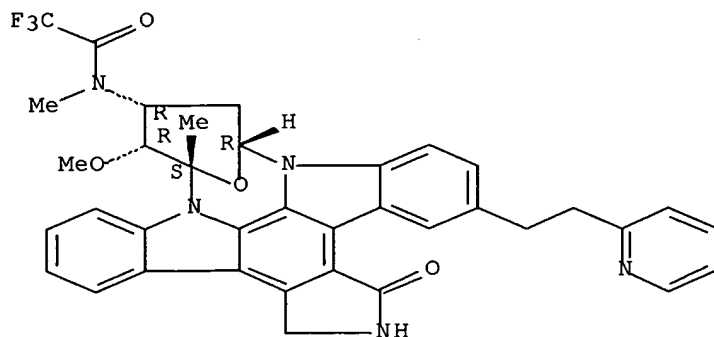
Double bond geometry unknown.



RN 320383-10-6 CAPLUS

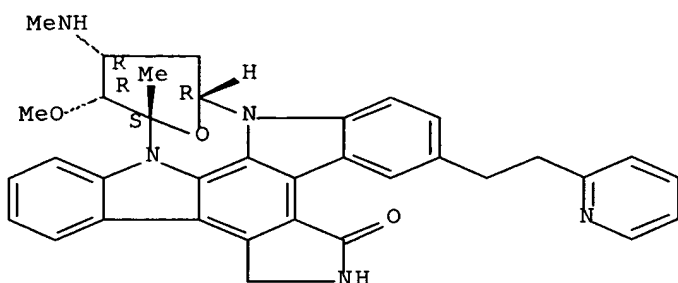
CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[2-(2-pyridinyl)ethyl]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



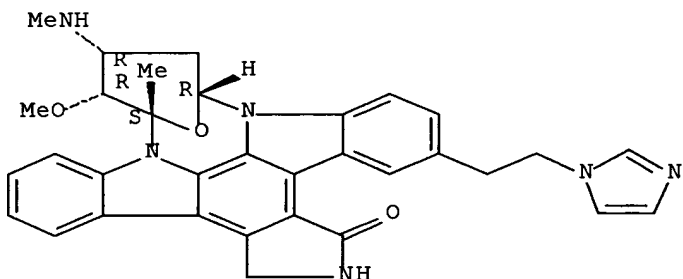
RN 320383-11-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[2-(2-pyridinyl)ethyl]-, (9S,10R,11R,13R)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



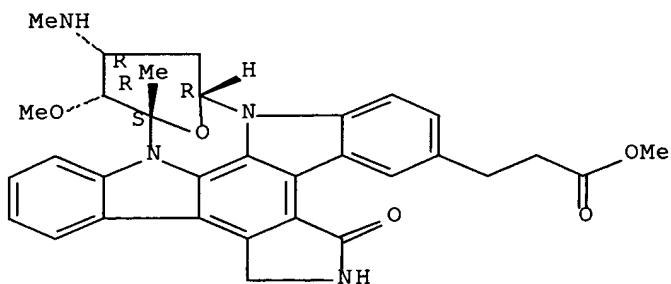
RN 320383-12-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-[2-(1H-imidazol-1-yl)ethyl]-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



RN 320383-13-9 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-propanoic acid, 2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, methyl ester, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

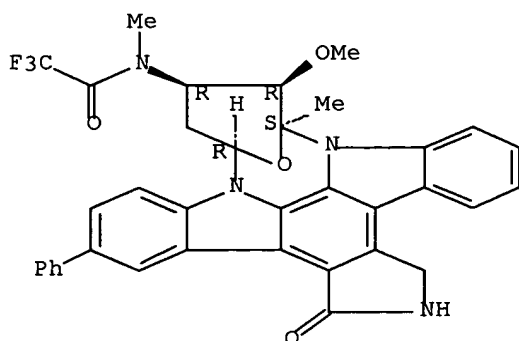


RN 320383-14-0 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-

10-methoxy-9-methyl-1-oxo-17-phenyl-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

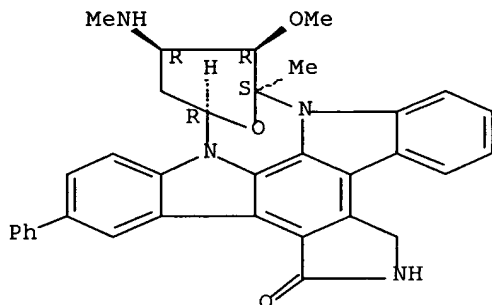


RN 320383-15-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-

11-(methylamino)-17-phenyl-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



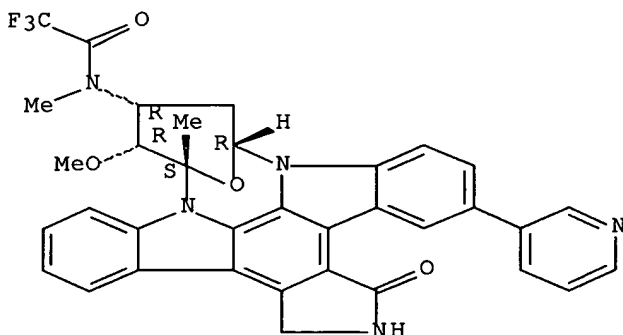
RN 320383-16-2 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-

hexahydro-

10-methoxy-9-methyl-1-oxo-17-(3-pyridinyl)-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI)  
(CA INDEX NAME)

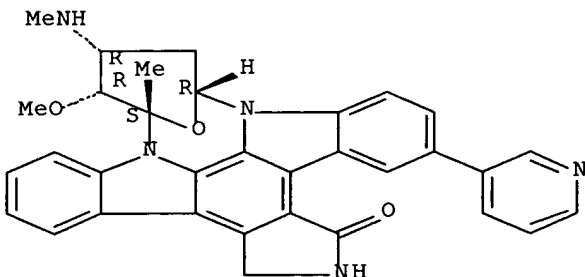
Absolute stereochemistry.



RN 320383-17-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-(3-pyridinyl)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

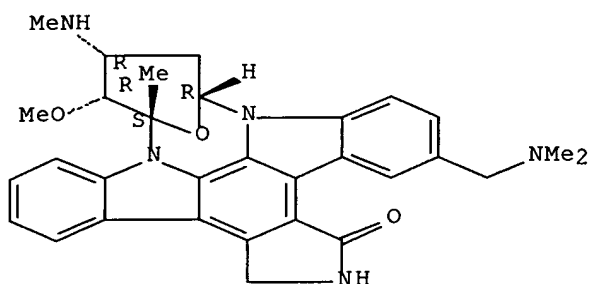
Absolute stereochemistry.



RN 320383-18-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(dimethylamino)methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI)  
(CA INDEX NAME)

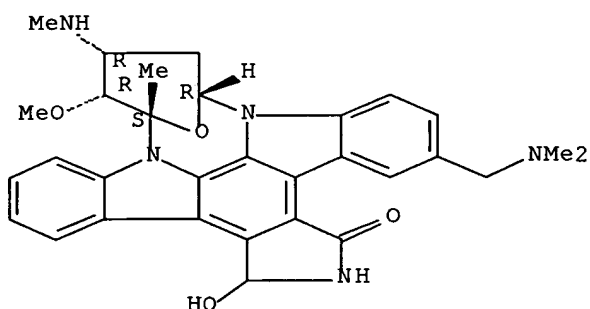
Absolute stereochemistry.



RN 320383-19-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(dimethylamino)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

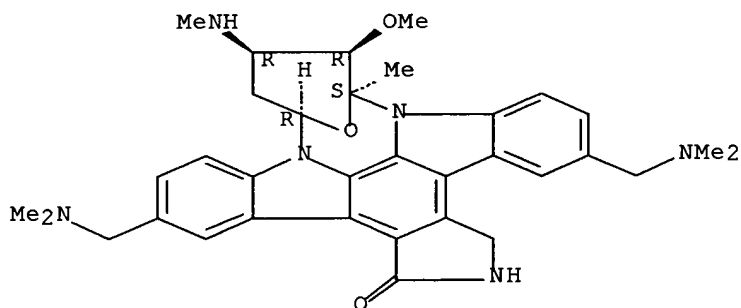
Absolute stereochemistry.



RN 320383-20-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(dimethylamino)methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



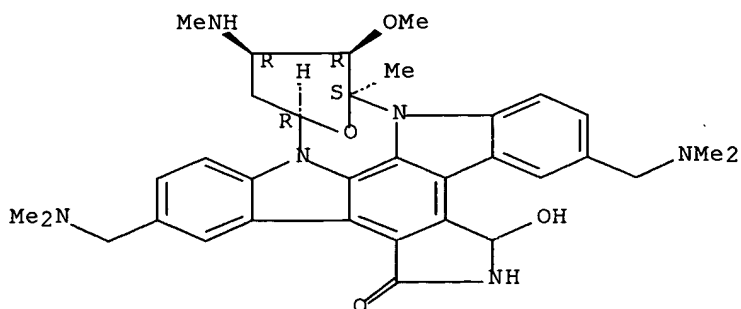
RN 320383-21-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(dimethylamino)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-



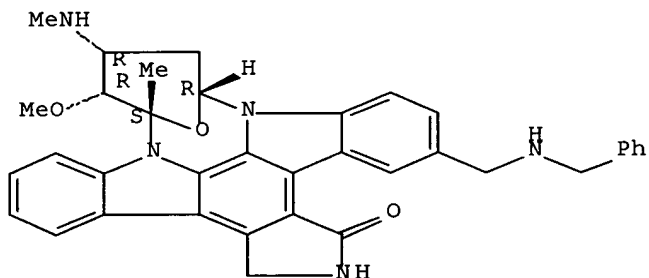
(methylamino)-,  
 (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



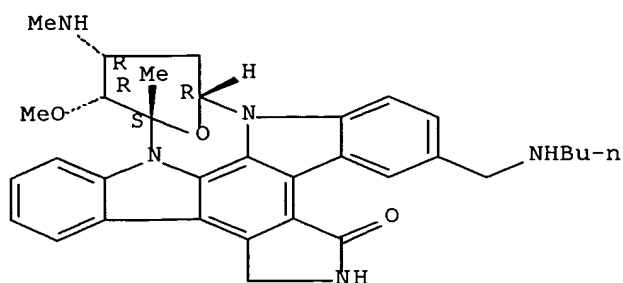
RN 320383-22-0 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[[ (phenylmethyl)amino]methyl]-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



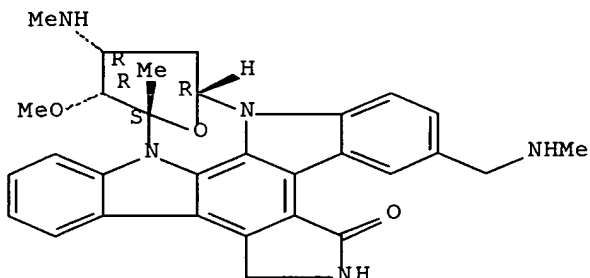
RN 320383-23-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(butylamino)methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



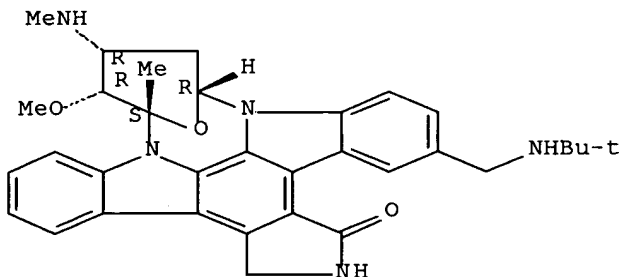
RN 320383-24-2 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[(methylamino)methyl]-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



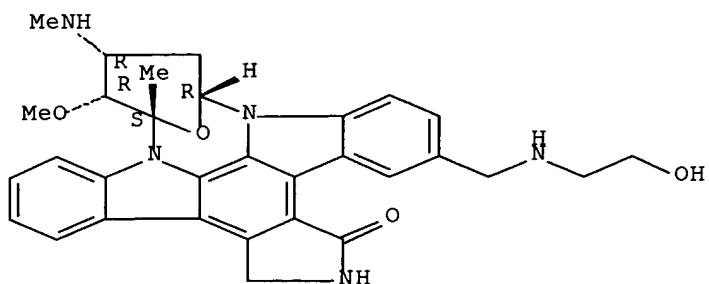
RN 320383-25-3 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[[[(1,1-dimethylethyl)amino]methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320383-26-4 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-[[[(2-hydroxyethyl)amino]methyl]-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

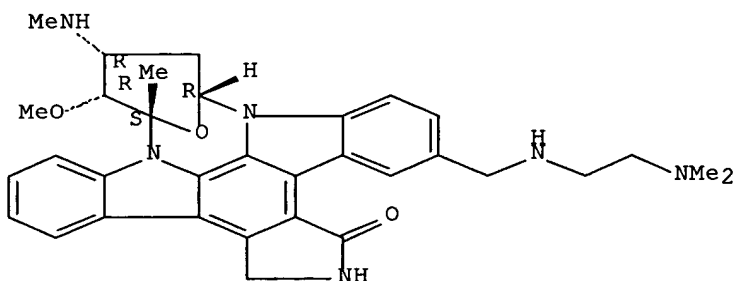
Absolute stereochemistry.



RN 320383-27-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[[2-(dimethylamino)ethyl]amino]methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

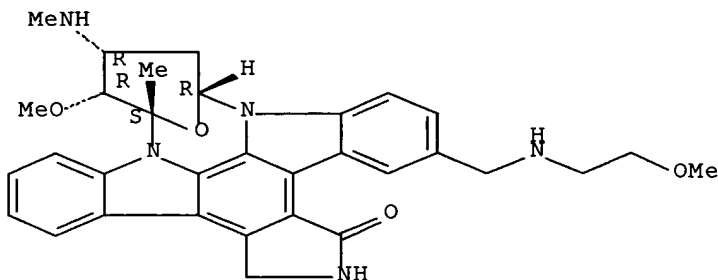
Absolute stereochemistry.



RN 320383-28-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-17-[[2-methoxyethyl]amino]methyl]-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

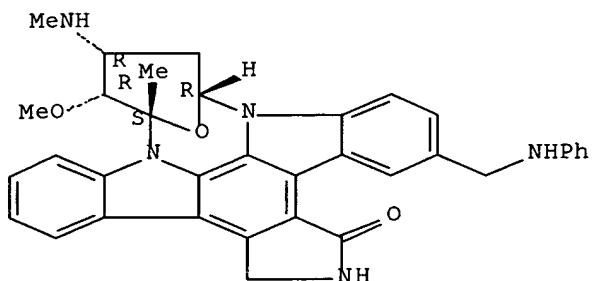


RN 320383-29-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-[(phenylamino)methyl]-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

INDEX NAME)

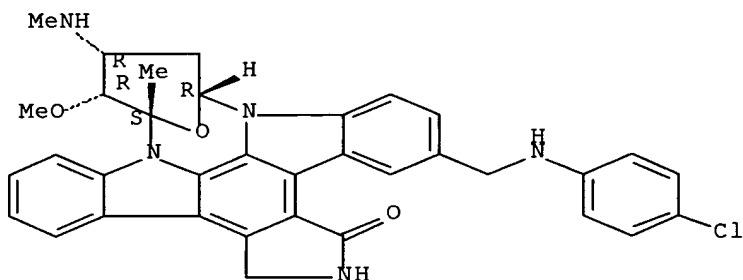
Absolute stereochemistry.



RN 320383-30-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[[ (4-chlorophenyl) amino]methyl]-, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

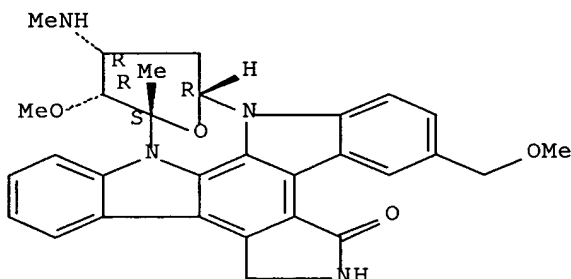
Absolute stereochemistry.



RN 320383-31-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-17-(methoxymethyl)-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

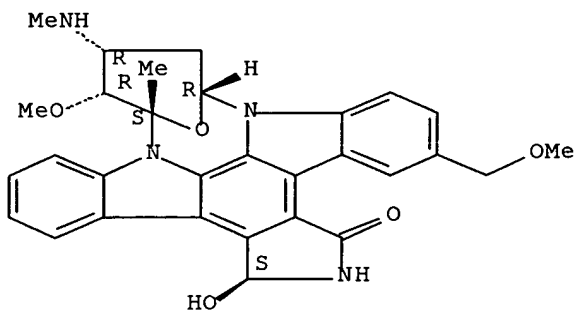


RN 320383-32-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-

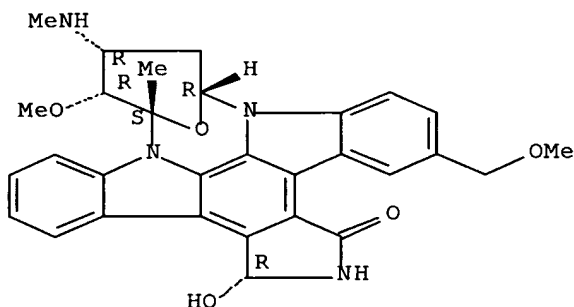
j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-17-(methoxymethyl)-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)-(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



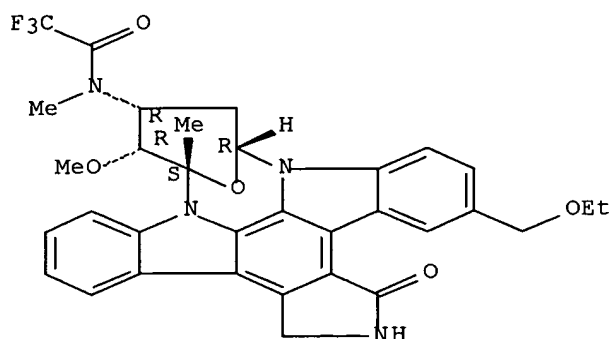
RN 320383-33-3 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-g:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-17-(methoxymethyl)-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)-(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



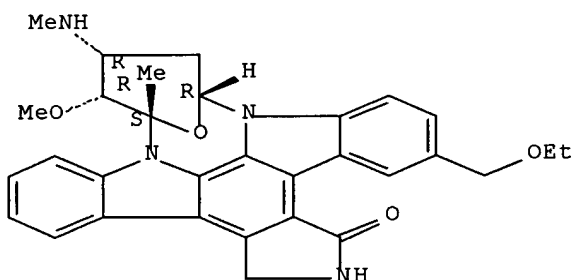
RN 320383-34-4 CAPLUS  
CN Acetamide, N-[(9S,10R,11R,13R)-17-(ethoxymethyl)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-g:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl-(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



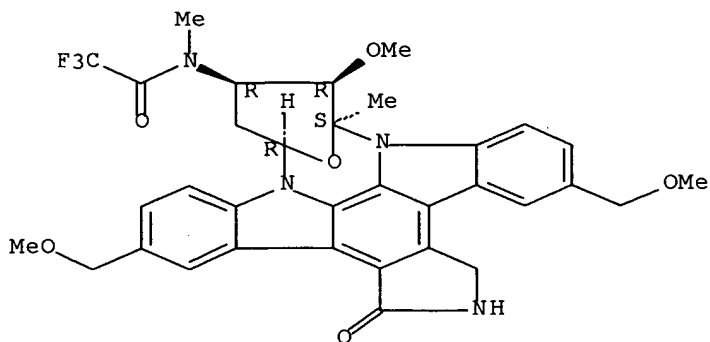
RN 320383-35-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-(ethoxymethyl)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320383-36-6 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-5,17-bis(methoxymethyl)-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

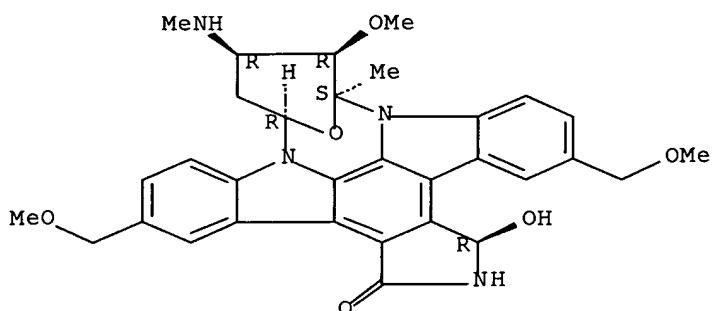


9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-5,17-bis(methoxymethyl)-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI)  
(CA INDEX NAME)

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-5,17-bis(methoxymethyl)-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-5,17-bis(methoxymethyl)-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

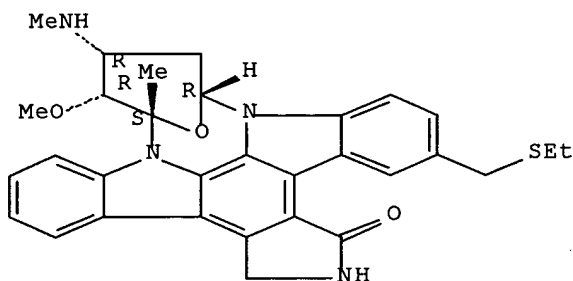
Absolute stereochemistry.



RN 320383-40-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI)  
(CA INDEX NAME)

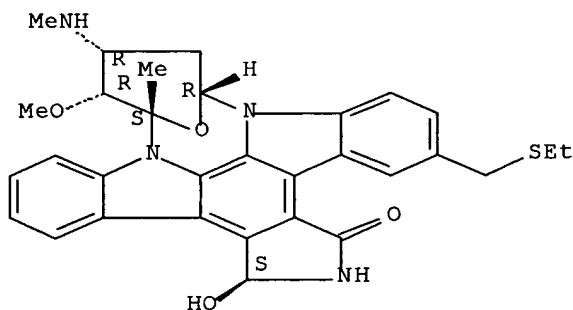
Absolute stereochemistry.



RN 320383-41-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



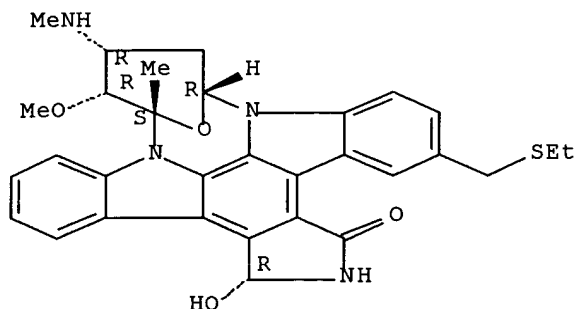
RN 320383-42-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-,



(3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

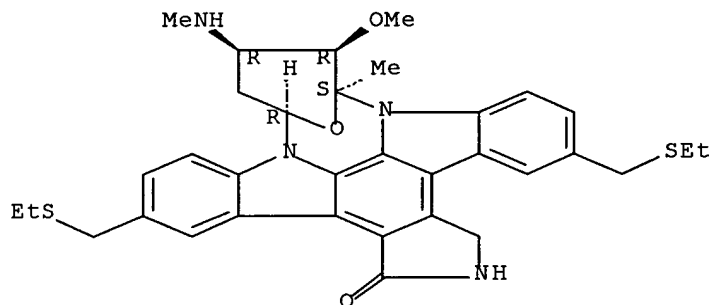
Absolute stereochemistry.



RN 320383-43-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

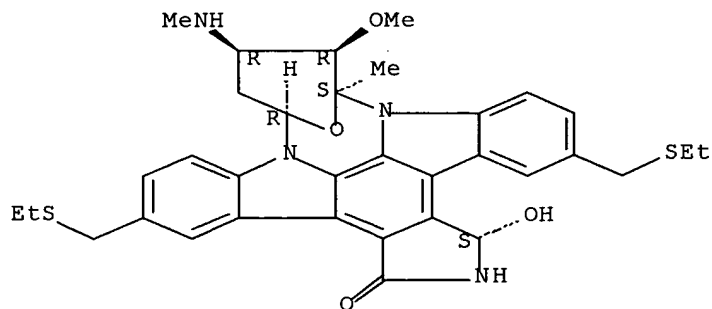
Absolute stereochemistry.



RN 320383-44-6 CAPLUS

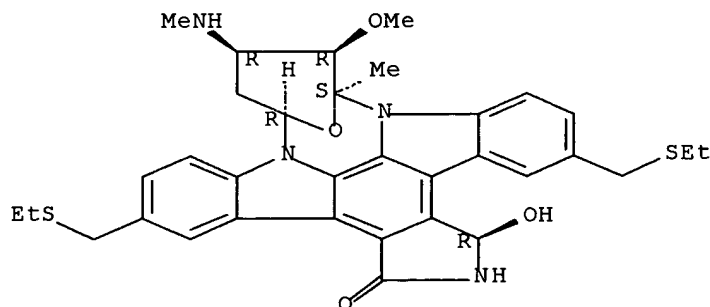
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



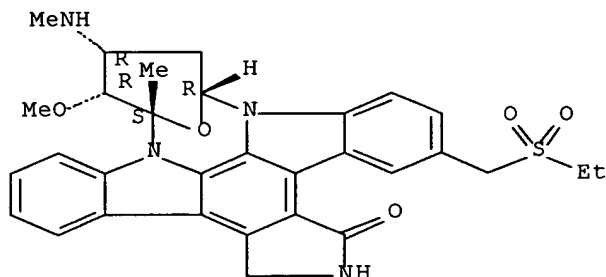
RN 320383-45-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



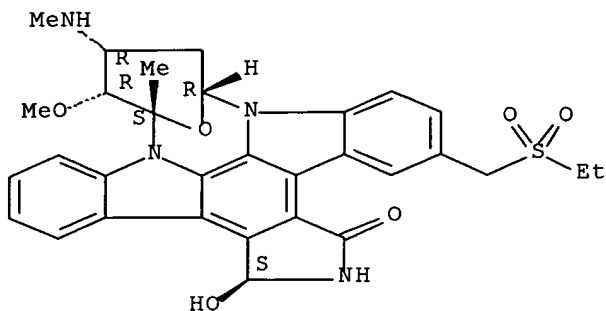
RN 320383-46-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylsulfonyl)methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320383-47-9 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylsulfonyl)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

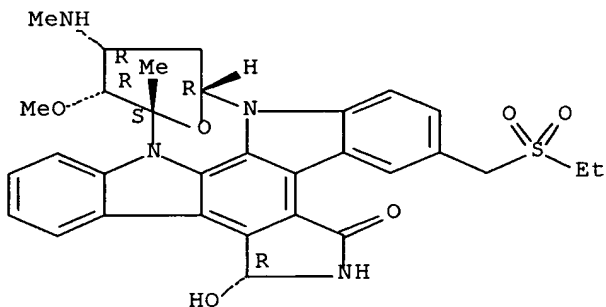
Absolute stereochemistry.



RN 320383-48-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[(ethylsulfonyl)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

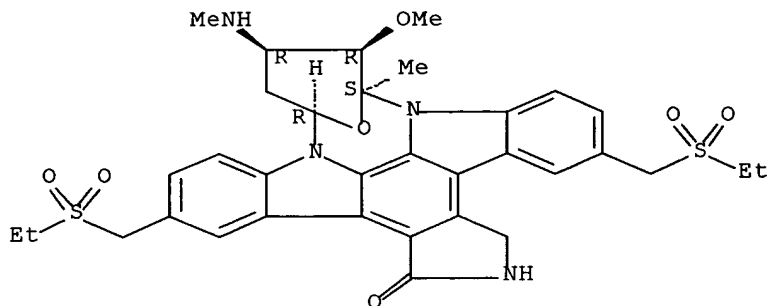
Absolute stereochemistry.



RN 320383-49-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylsulfonyl)methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

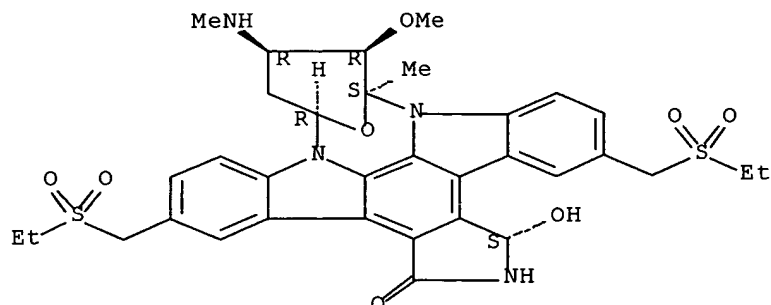


RN 320383-50-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylsulfonyl)methyl]-

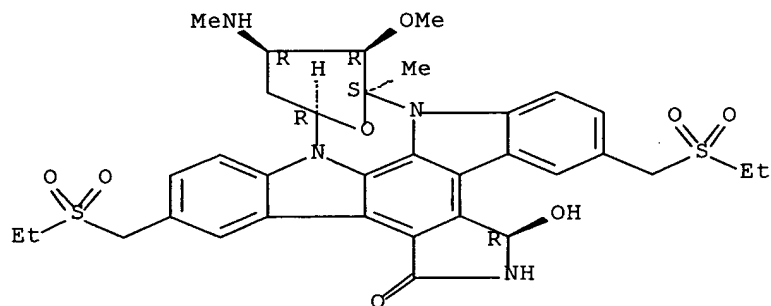
2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-,  
(3S,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



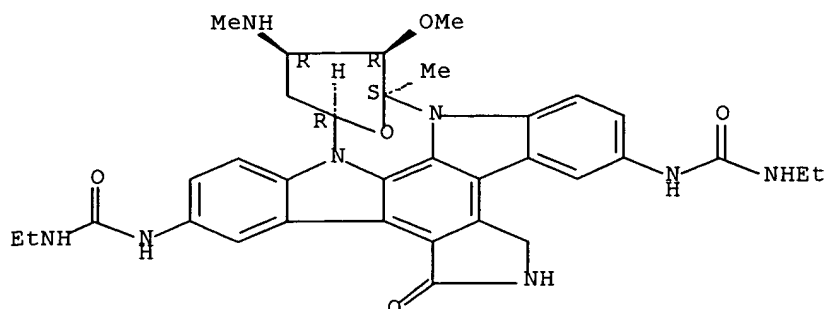
RN 320383-51-5 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylsulfonyl)methyl]-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-,  
(3R,9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320383-52-6 CAPLUS  
CN Urea, N,N''-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl]bis[N'-ethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

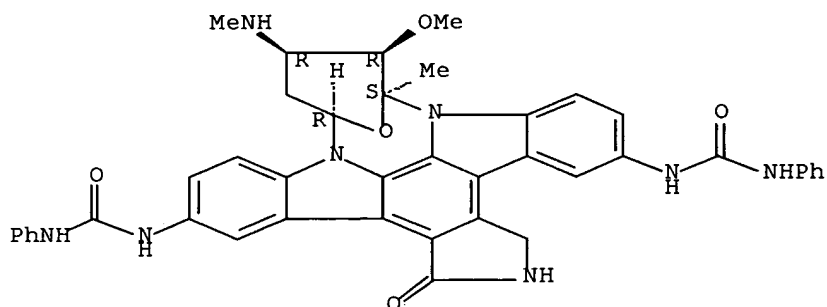


RN 320383-53-7 CAPLUS

CN Urea, N,N''-[ (9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-

lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl]bis[N'-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

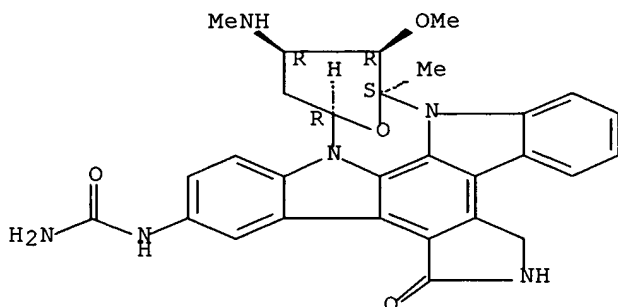


RN 320383-54-8 CAPLUS

CN Urea, [ (9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-

(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



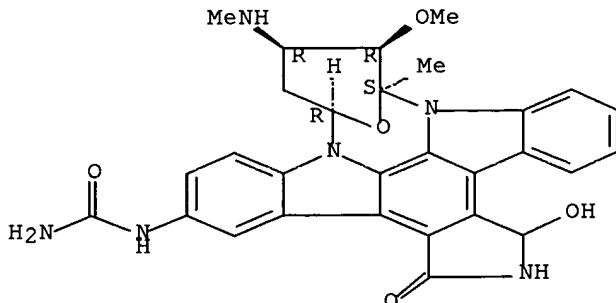
RN 320383-55-9 CAPLUS

CN Urea, [ (9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-

13-

methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

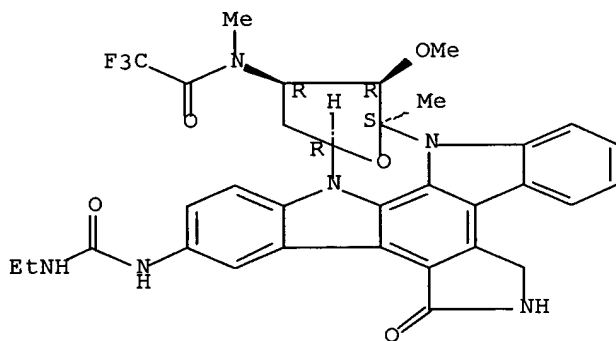
Absolute stereochemistry.



RN 320383-56-0 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-[[[(ethylamino)carbonyl]amino]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

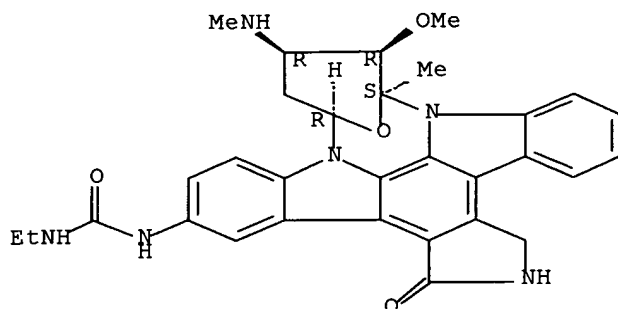
Absolute stereochemistry.



RN 320383-57-1 CAPLUS

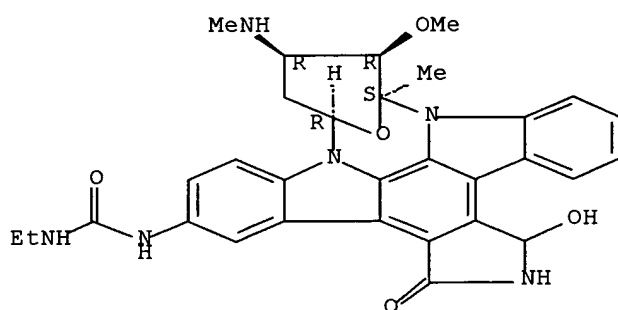
CN Urea, N-ethyl-N'-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



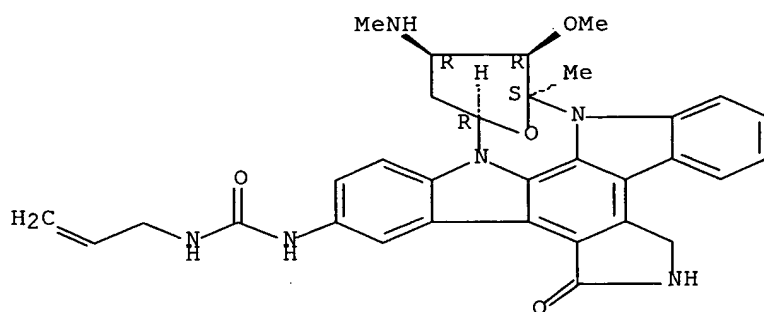
RN 320383-58-2 CAPLUS  
 CN Urea, N-ethyl-N'-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320383-59-3 CAPLUS  
 CN Urea, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-N'-2-propenyl- (9CI) (CA INDEX NAME)

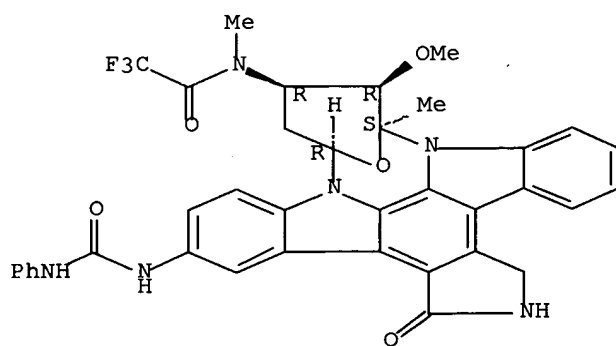
Absolute stereochemistry.



RN 320383-60-6 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[[ (phenylamino) carbonyl] amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

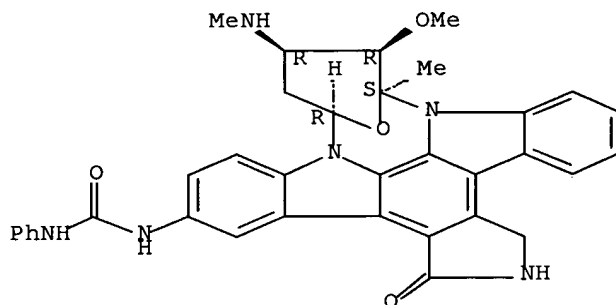
Absolute stereochemistry.



RN 320383-61-7 CAPLUS

CN Urea, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-N'-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

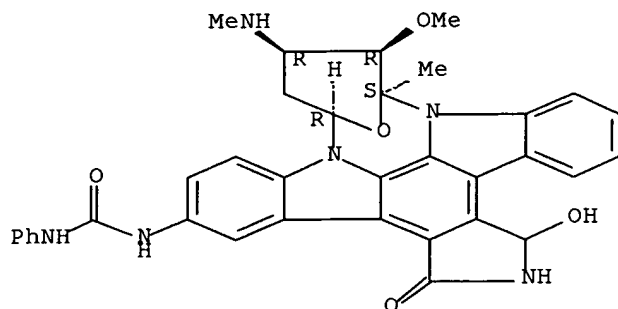


RN 320383-62-8 CAPLUS

CN Urea, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-N'-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

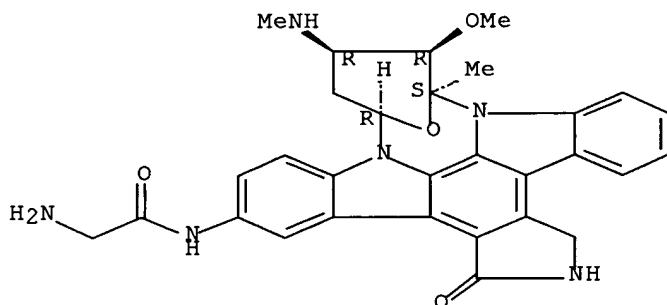




RN 320383-63-9 CAPLUS

CN Acetamide, 2-amino-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

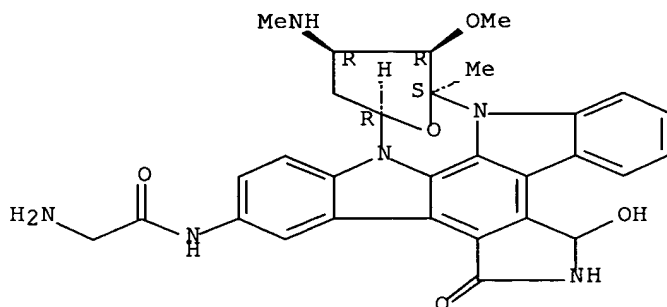
Absolute stereochemistry.



RN 320383-64-0 CAPLUS

CN Acetamide, 2-amino-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

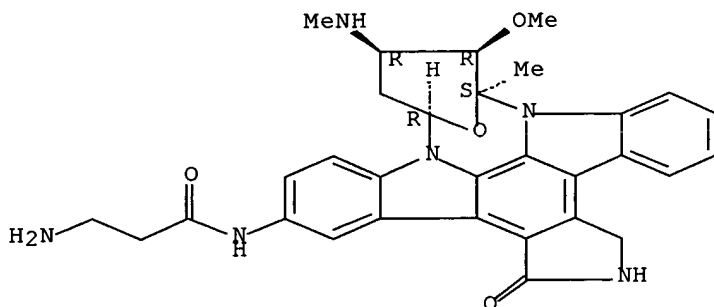
Absolute stereochemistry.



RN 320383-65-1 CAPLUS

CN Propanamide, 3-amino-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

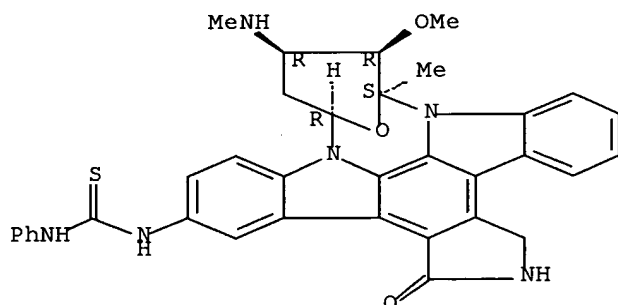
Absolute stereochemistry.



RN 320383-66-2 CAPLUS

CN Thiourea, N'-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-N'-phenyl- (9CI) (CA INDEX NAME)

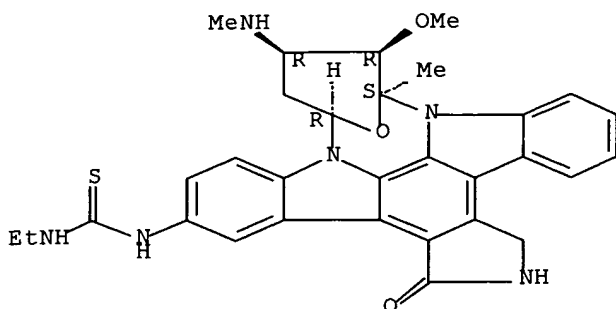
Absolute stereochemistry.



RN 320383-67-3 CAPLUS

CN Thiourea, N'-ethyl-N'-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

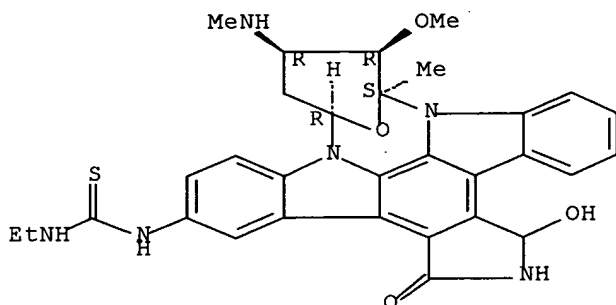
Absolute stereochemistry.



RN 320383-68-4 CAPLUS

CN Thiourea, N'-ethyl-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-(9CI) (CA INDEX NAME)

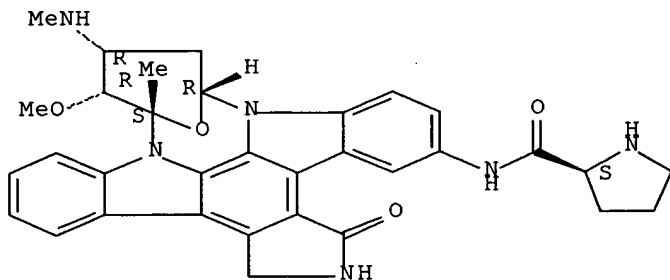
Absolute stereochemistry.



RN 320383-69-5 CAPLUS

CN 2-Pyrrolidinecarboxamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-(2S)-(9CI) (CA INDEX NAME)

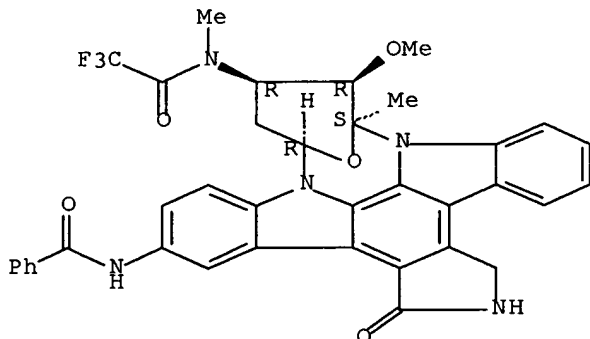
Absolute stereochemistry.



RN 320383-70-8 CAPLUS

CN Benzamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

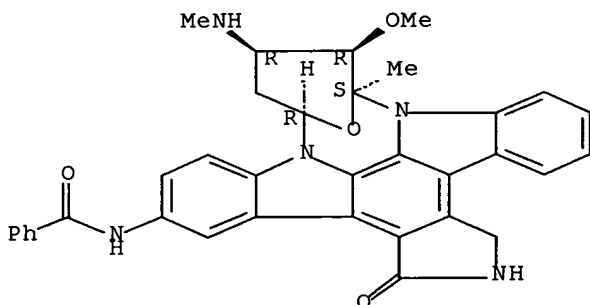
Absolute stereochemistry.



RN 320383-71-9 CAPLUS

CN Benzamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

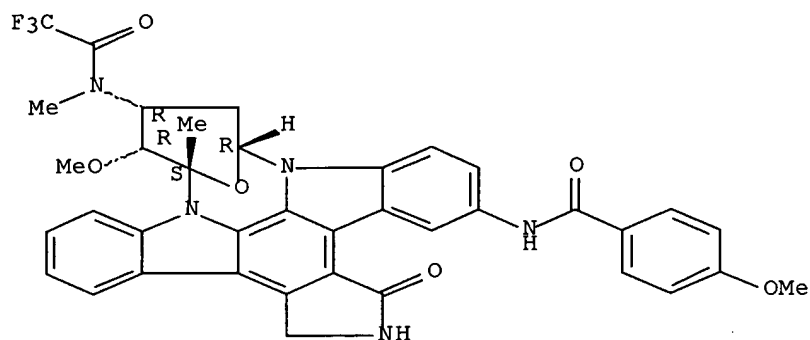
Absolute stereochemistry.



RN 320383-72-0 CAPLUS

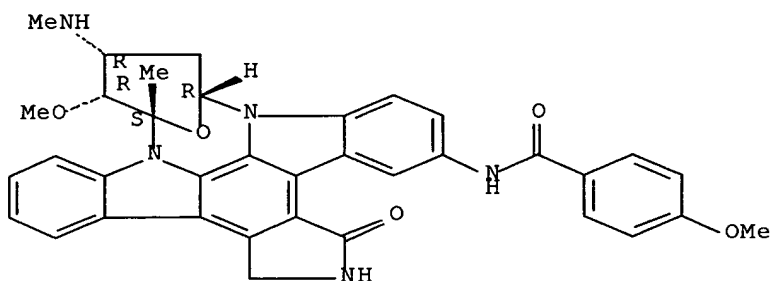
CN Benzamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



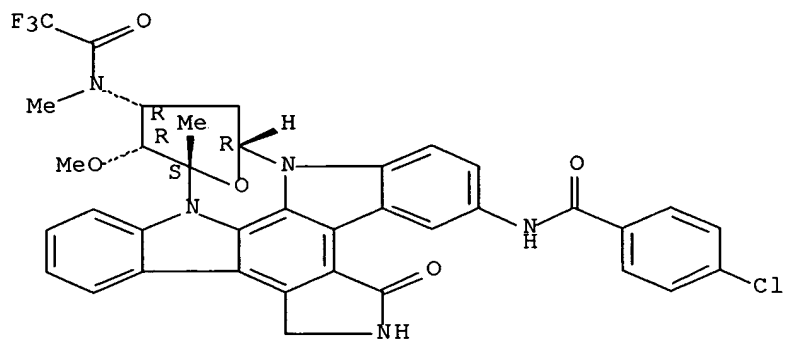
RN 320383-73-1 CAPLUS  
 CN Benzamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



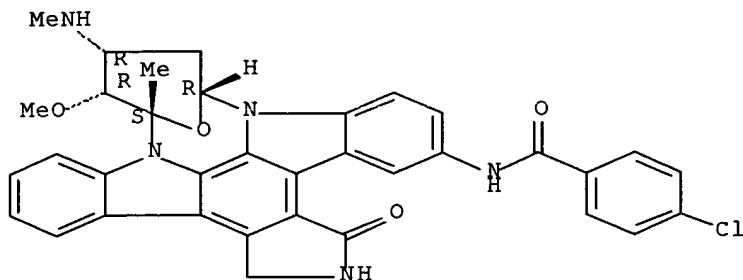
RN 320383-74-2 CAPLUS  
 CN Benzamide, 4-chloro-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



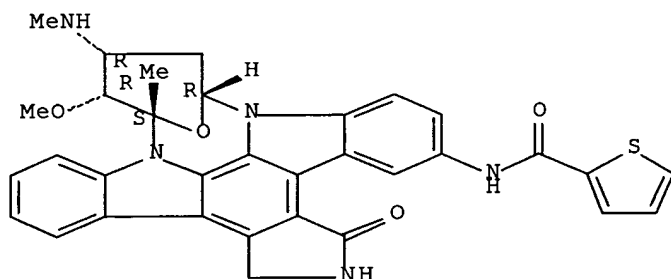
RN 320383-75-3 CAPLUS  
 CN Benzamide, 4-chloro-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



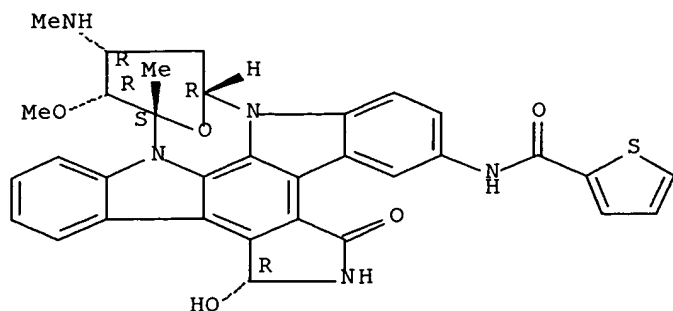
RN 320383-76-4 CAPLUS  
 CN 2-Thiophenecarboxamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320383-77-5 CAPLUS  
 CN 2-Thiophenecarboxamide, N-[(1R,9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

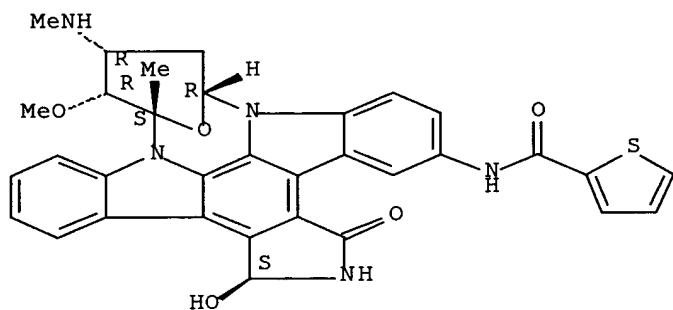


RN 320383-78-6 CAPLUS

CN 2-Thiophenecarboxamide, N-[(1S,9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-1-

hydroxy-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-(9CI) (CA INDEX NAME)

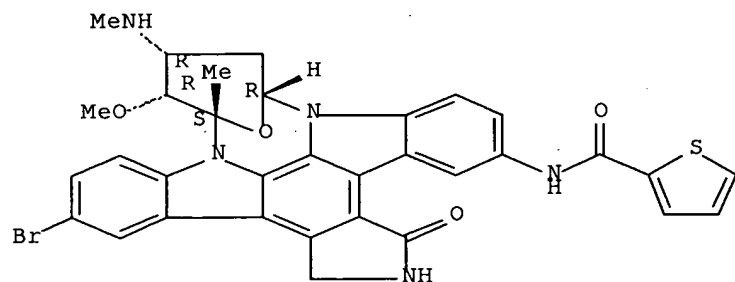
Absolute stereochemistry.



RN 320383-79-7 CAPLUS

CN 2-Thiophenecarboxamide, N-[(9R,11R,12R,13S)-17-bromo-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

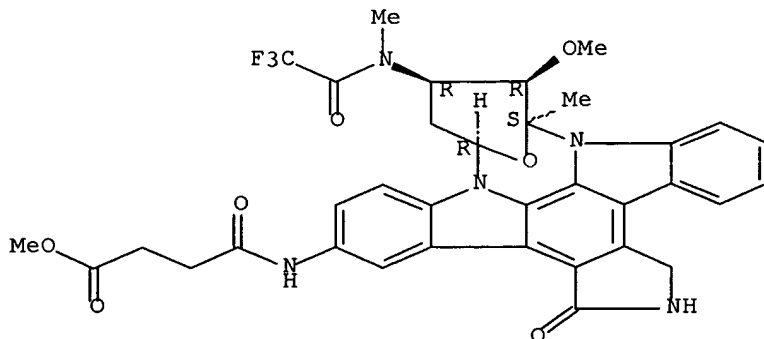


RN 320383-80-0 CAPLUS

CN Butanoic acid, 4-[[ (9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-

13-methyl-11-[methyl (trifluoroacetyl) amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]amino]-4-oxo-, methyl ester (9CI) (CA INDEX NAME)

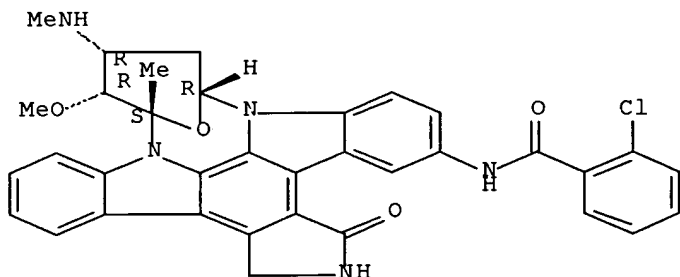
Absolute stereochemistry.



RN 320383-81-1 CAPLUS

CN Benzamide, 2-chloro-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

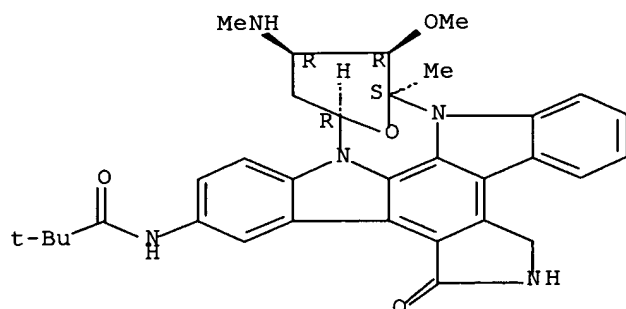


RN 320383-82-2 CAPLUS

CN Propanamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

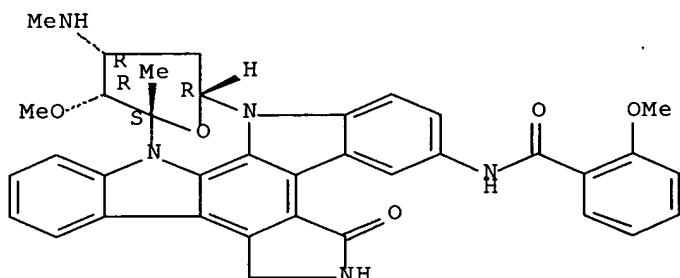




RN 320383-83-3 CAPLUS

CN Benzamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-2-methoxy- (9CI) (CA INDEX NAME)

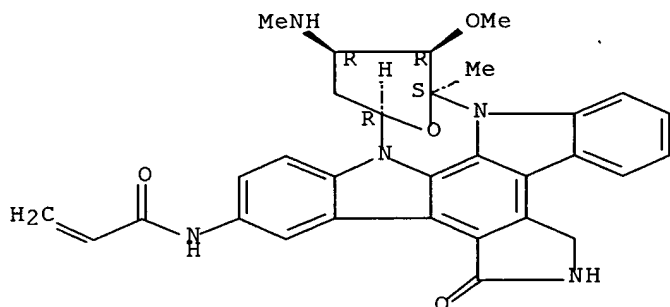
Absolute stereochemistry.



RN 320383-84-4 CAPLUS

CN 2-Propenamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

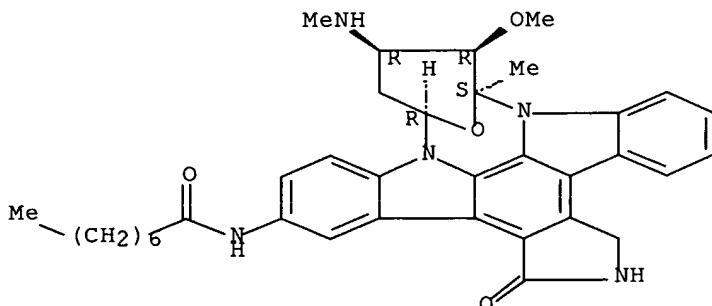


RN 320383-85-5 CAPLUS

CN Octanamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-

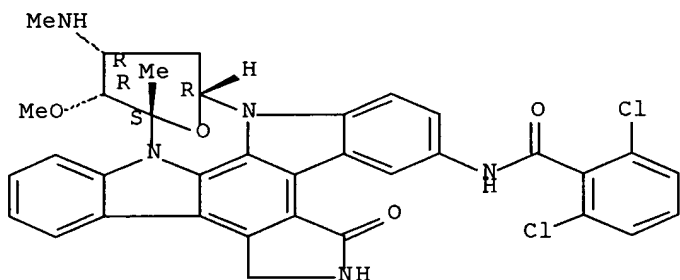
methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-  
gh:3',2',1'-  
lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



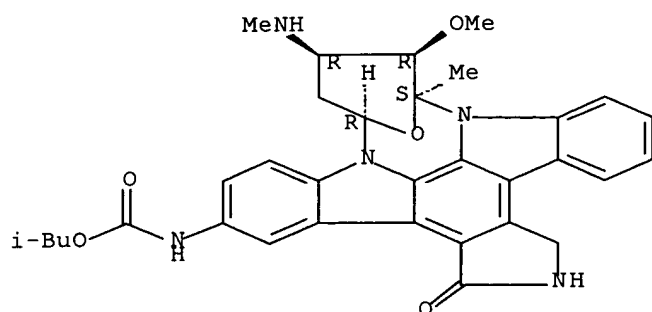
RN 320383-86-6 CAPLUS  
CN Benzamide, 2,6-dichloro-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-  
12-  
methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-  
diindolo[1,2,3-  
gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX  
NAME)

Absolute stereochemistry.



RN 320383-87-7 CAPLUS  
CN Carbamic acid, [(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-  
13-  
methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-  
gh:3',2',1'-  
lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-, 2-methylpropyl ester (9CI)  
(CA INDEX NAME)

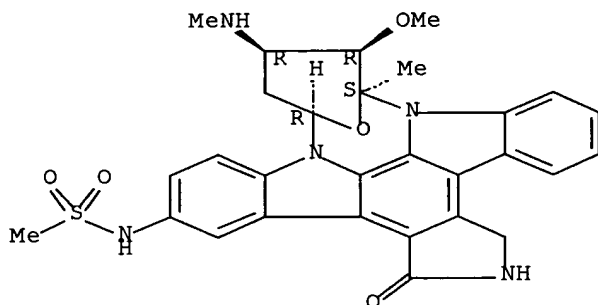
Absolute stereochemistry.



RN 320383-88-8 CAPLUS

CN Methanesulfonamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

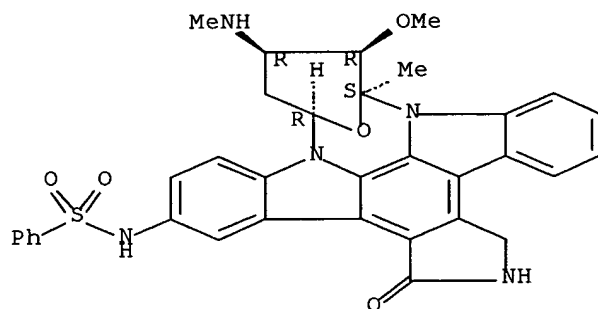
Absolute stereochemistry.



RN 320383-89-9 CAPLUS

CN Benzenesulfonamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

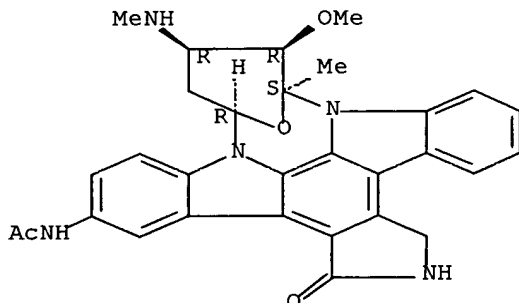
Absolute stereochemistry.



RN 320383-90-2 CAPLUS

CN Acetamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

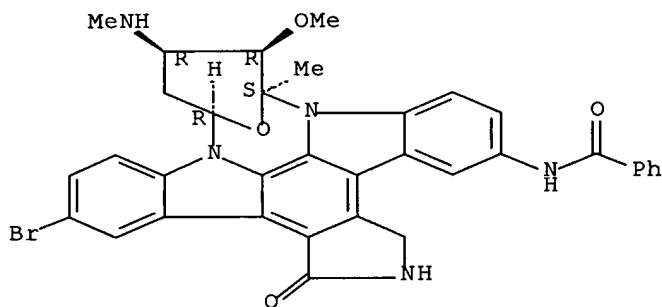
Absolute stereochemistry.



RN 320383-91-3 CAPLUS

CN Benzamide, N-[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

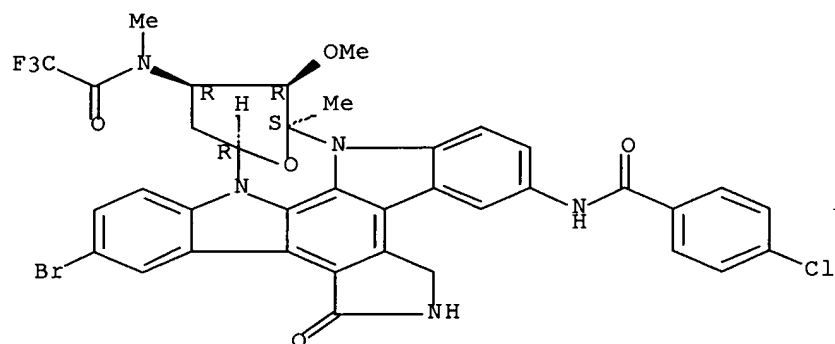
Absolute stereochemistry.



RN 320383-92-4 CAPLUS

CN Benzamide, N-[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-[methyl(trifluoroacetyl)amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-chloro- (9CI) (CA INDEX NAME)

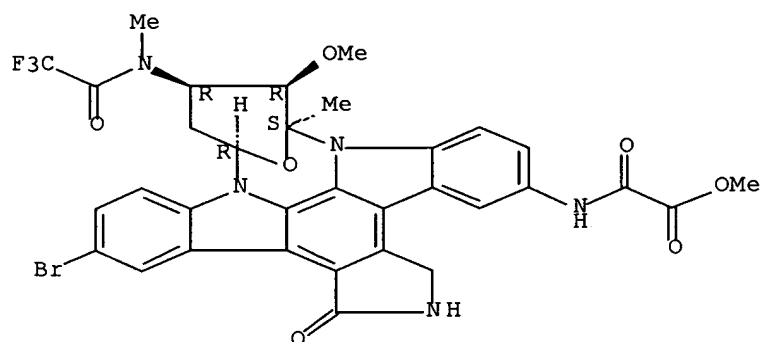
Absolute stereochemistry.



RN 320383-93-5 CAPLUS

CN Acetic acid, [[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-[methyl(trifluoroacetyl)amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]amino]oxo-, methyl ester (9CI) (CA INDEX NAME)

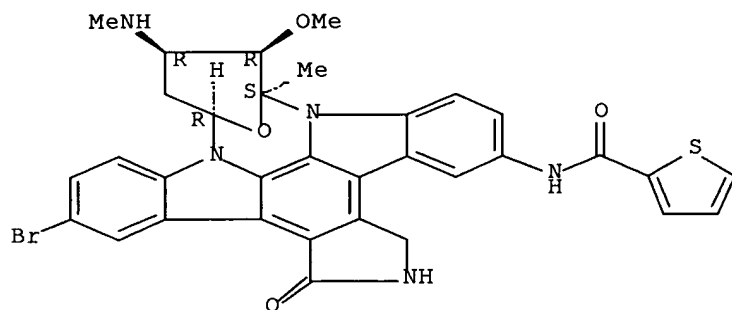
Absolute stereochemistry.



RN 320383-94-6 CAPLUS

CN 2-Thiophenecarboxamide, N-[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

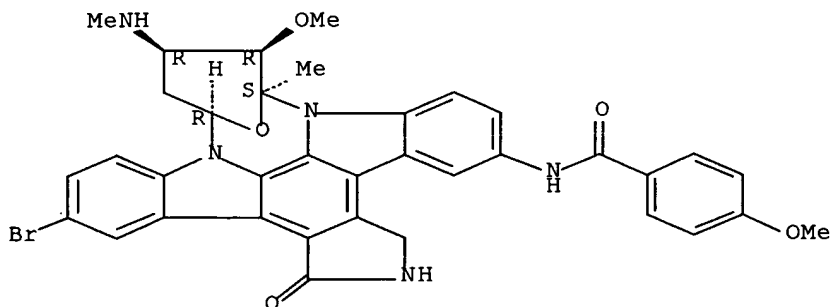
Absolute stereochemistry.



RN 320383-95-7 CAPLUS

CN Benzamide, N-[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methoxy- (9CI)  
(CA INDEX NAME)

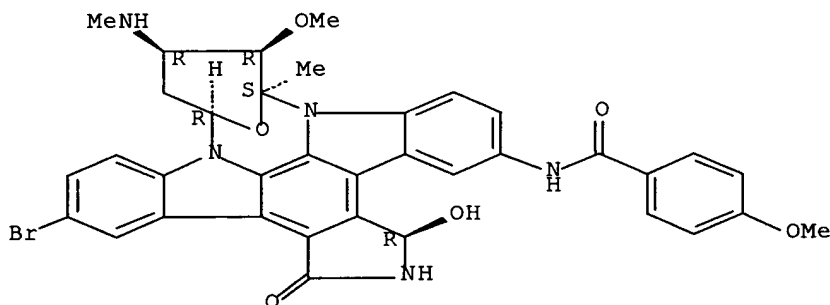
Absolute stereochemistry.



RN 320383-96-8 CAPLUS

CN Benzamide, N-[(3R,9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methoxy- (9CI) (CA INDEX NAME)

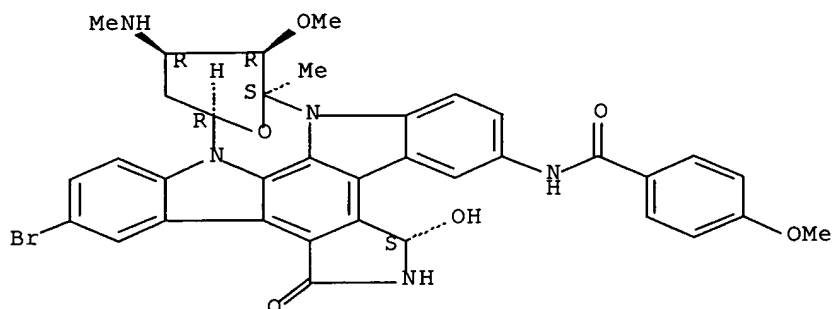
Absolute stereochemistry.



RN 320383-97-9 CAPLUS

CN Benzamide, N-[(3S,9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



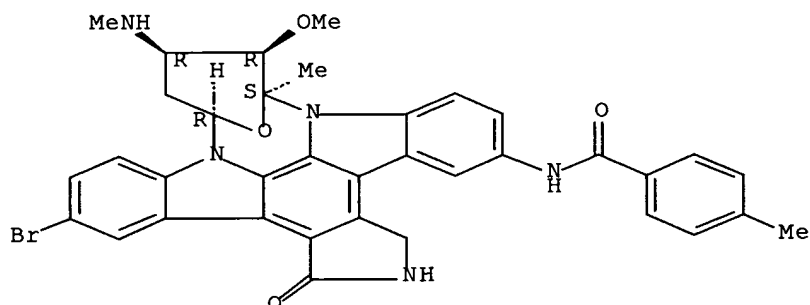
RN 320383-98-0 CAPLUS

CN Benzamide, N-[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methyl- (9CI)

(CA

INDEX NAME)

Absolute stereochemistry.

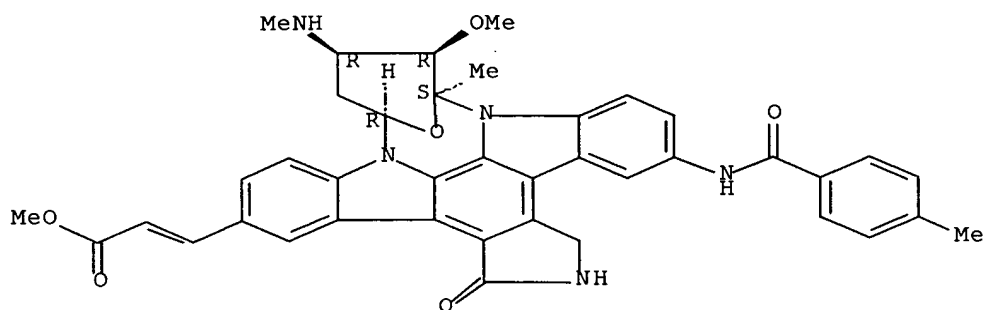


RN 320383-99-1 CAPLUS

CN 2-Propenoic acid, 3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-17-[(4-methylbenzoyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



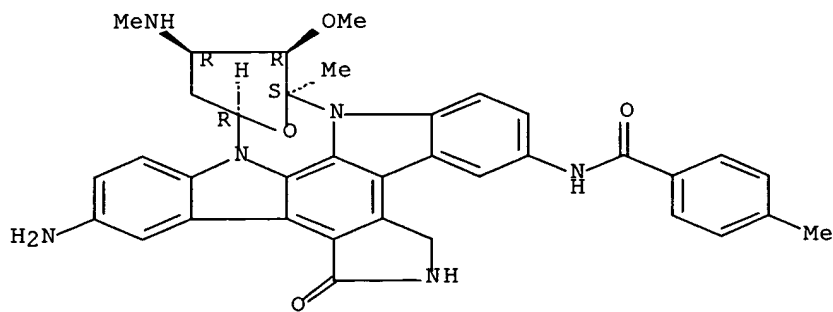
RN 320384-00-7 CAPLUS

CN Benzamide, N-[(9S,10R,11R,13R)-17-amino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methyl- (9CI)

(CA

INDEX NAME)

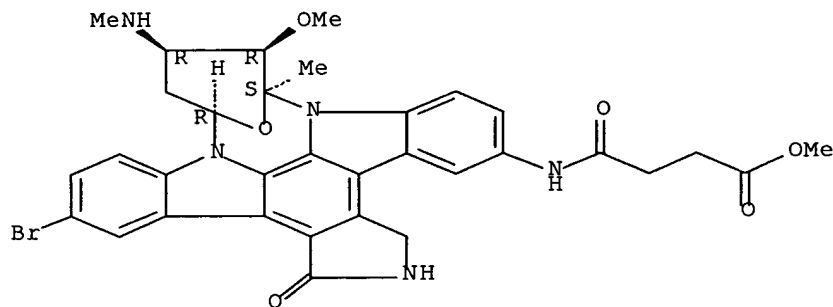
Absolute stereochemistry.



RN 320384-01-8 CAPLUS

CN Butanoic acid, 4-[[ (9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]amino]-4-oxo-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

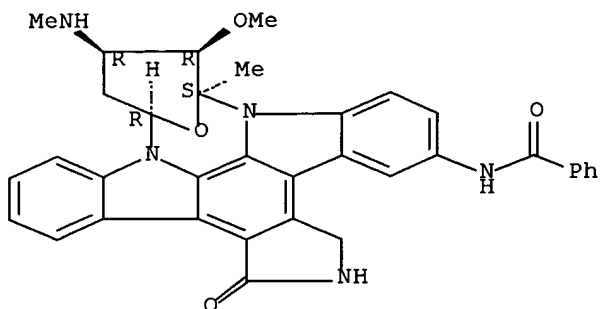


RN 320384-02-9 CAPLUS

CN Benzamide, N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

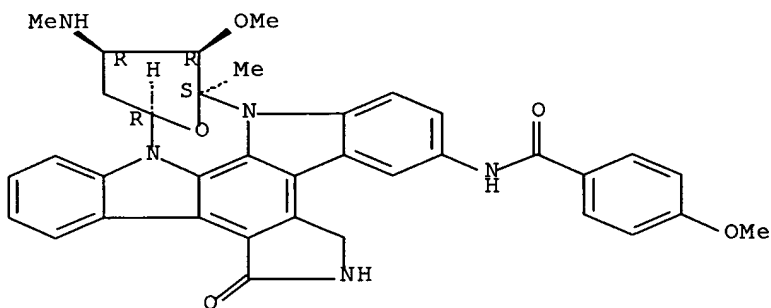




RN 320384-03-0 CAPLUS

CN Benamide, N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methoxy- (9CI) (CA INDEX NAME)

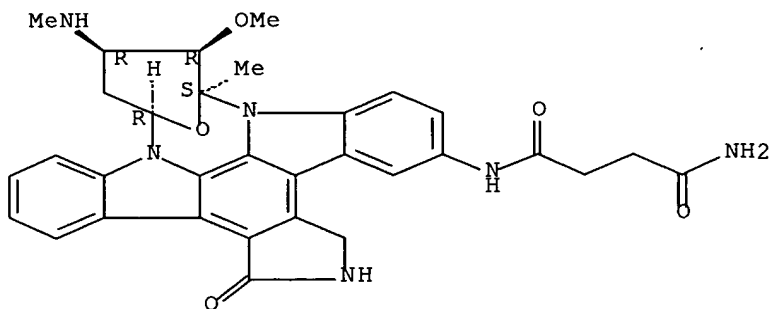
Absolute stereochemistry.



RN 320384-04-1 CAPLUS

CN Butanediamide, N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

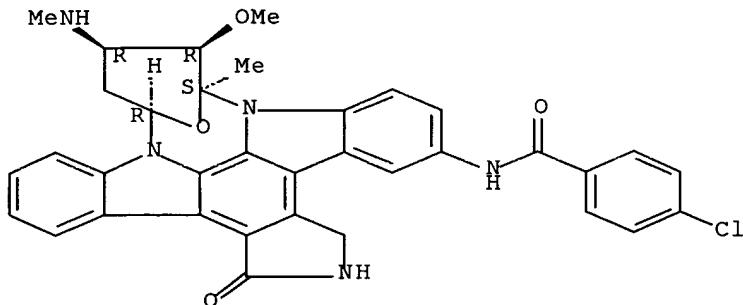
Absolute stereochemistry.



RN 320384-05-2 CAPLUS

CN Benzamide, 4-chloro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

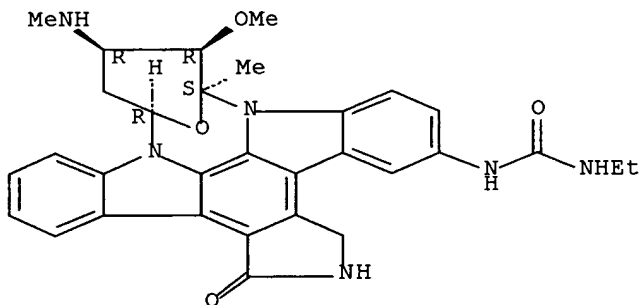
Absolute stereochemistry.



RN 320384-06-3 CAPLUS

CN Urea, N-ethyl-N'-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

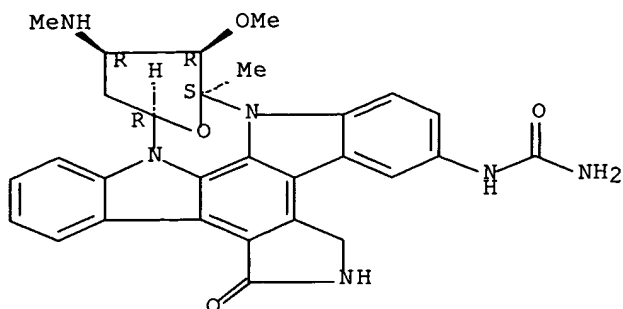
Absolute stereochemistry.



RN 320384-08-5 CAPLUS

CN Urea, [(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-10-9 CAPLUS

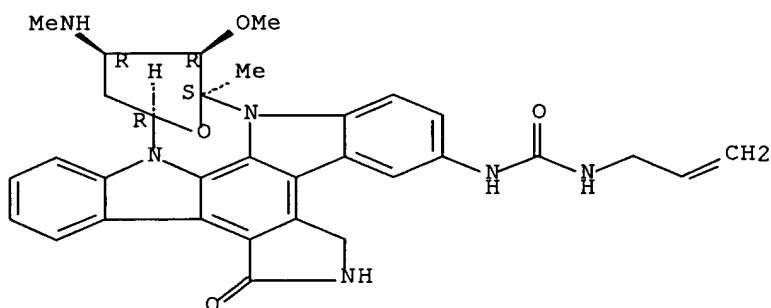
CN Urea, N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-

(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-N'-2-propenyl- (9CI) (CA

INDEX

NAME)

Absolute stereochemistry.



RN 320384-11-0 CAPLUS

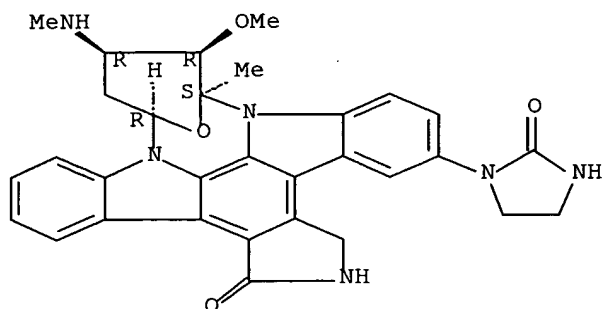
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-

11-(methylamino)-5-(2-oxo-1-imidazolidinyl)-, (9S,10R,11R,13R)- (9CI)

(CA

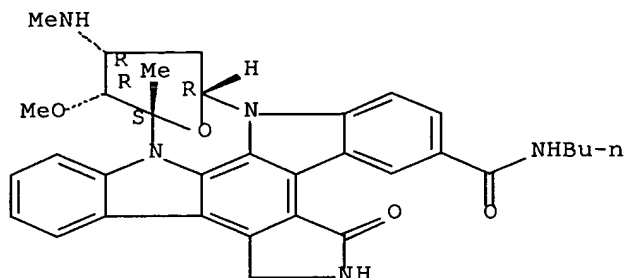
INDEX NAME)

Absolute stereochemistry.



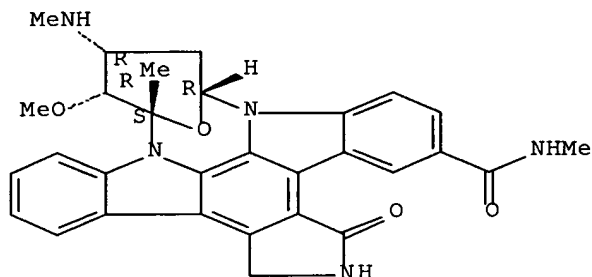
RN 320384-12-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, N-butyl-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



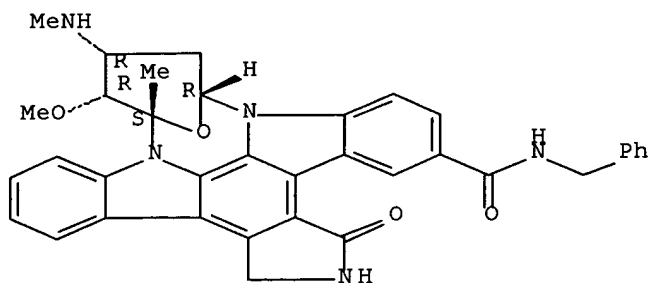
RN 320384-14-3 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-16-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-N-(phenylmethyl)-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

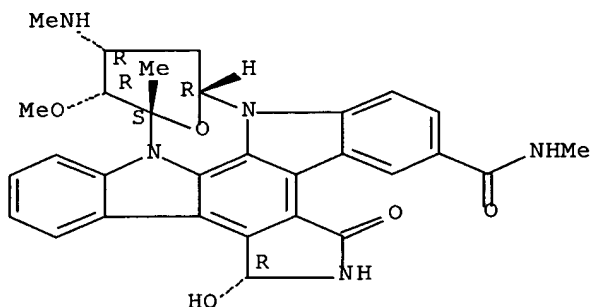
Absolute stereochemistry.



RN 320384-18-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-N,13-dimethyl-11-(methylamino)-3-oxo-, (1R,9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

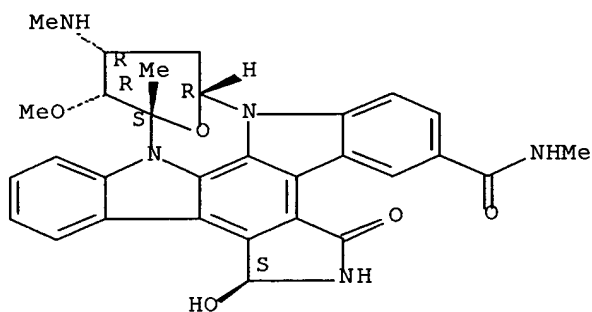
Absolute stereochemistry.



RN 320384-20-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-1-hydroxy-12-methoxy-N,13-dimethyl-11-(methylamino)-3-oxo-, (1S,9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

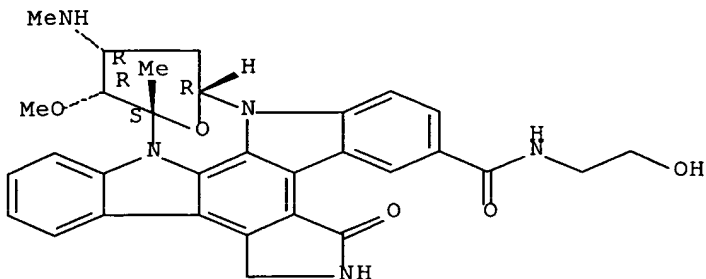


RN 320384-21-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-

j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-N-(2-hydroxyethyl)-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

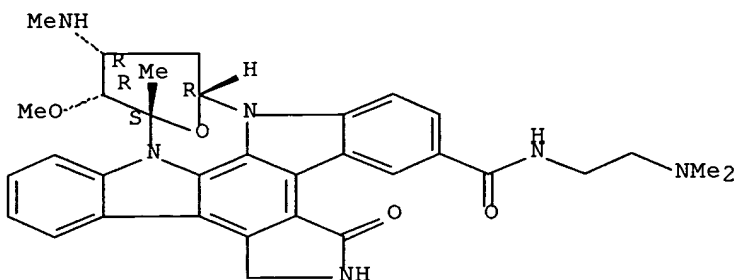
Absolute stereochemistry.



RN 320384-22-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, N-[2-(dimethylamino)ethyl]-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

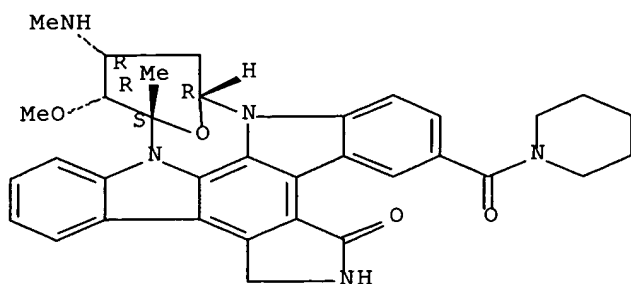
Absolute stereochemistry.



RN 320384-23-4 CAPLUS

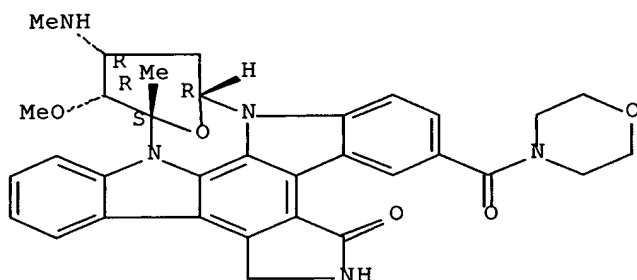
CN Piperidine, 1-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



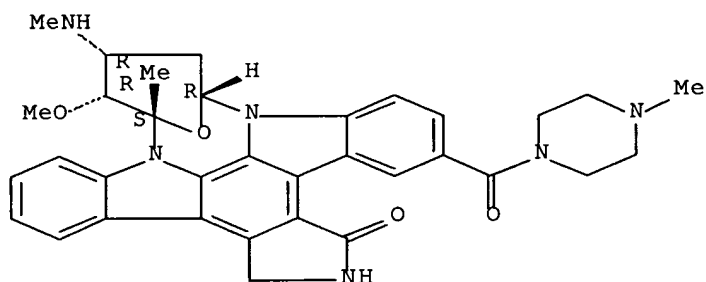
RN 320384-24-5 CAPLUS  
 CN Morpholine, 4-[[ (9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-25-6 CAPLUS  
 CN Piperazine, 1-[[ (9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

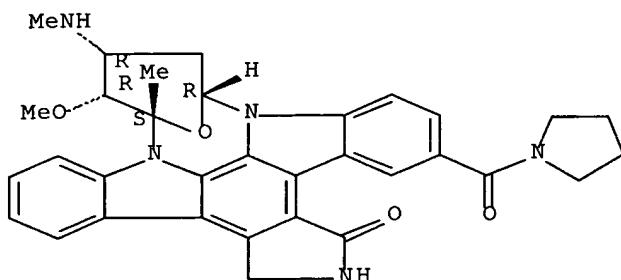


RN 320384-26-7 CAPLUS  
 CN Pyrrolidine, 1-[[ (9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-

13-

methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

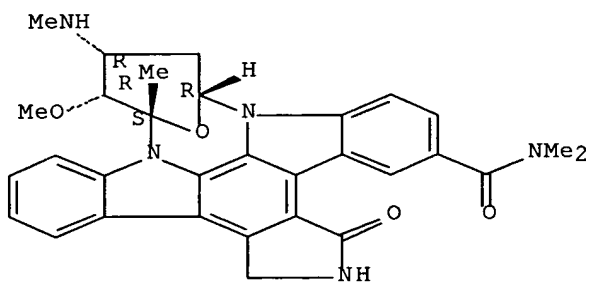


RN 320384-27-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-12-methoxy-

N,N,13-trimethyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

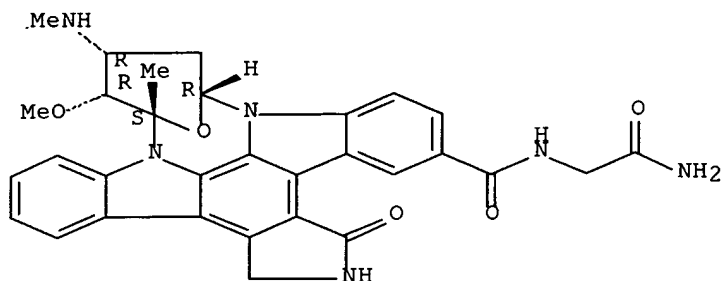


RN 320384-28-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, N-(2-amino-2-oxoethyl)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

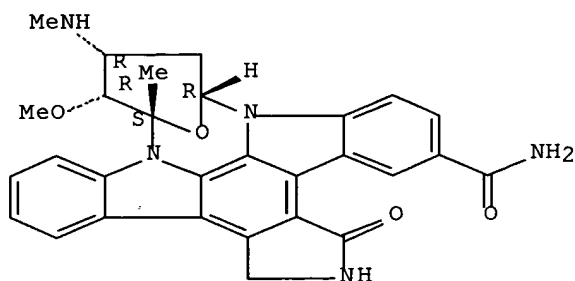
Absolute stereochemistry.





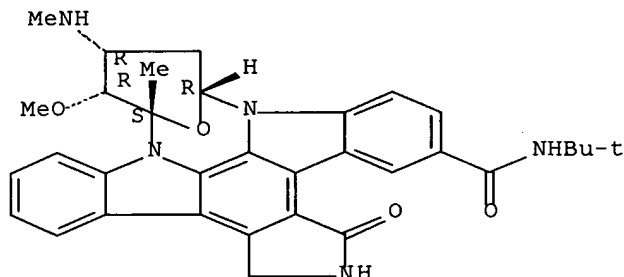
RN 320384-29-0 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-30-3 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, N-(1,1-dimethylethyl)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

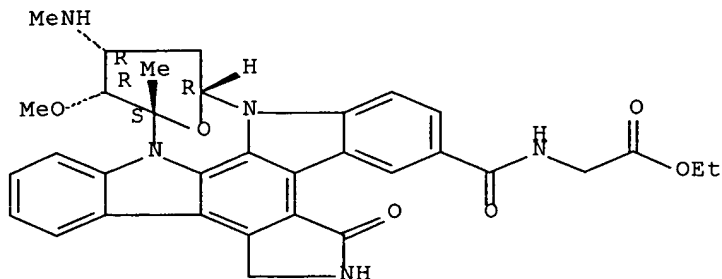


RN 320384-31-4 CAPLUS  
 CN Glycine, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide], (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

gh:3',2',1'-

lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]carbonyl]-, ethyl ester (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

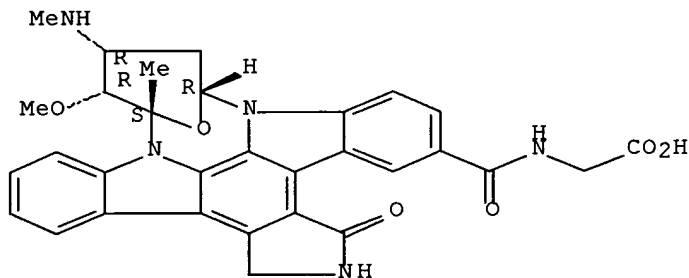


RN 320384-32-5 CAPLUS

CN Glycine, N-[[ (9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-

lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

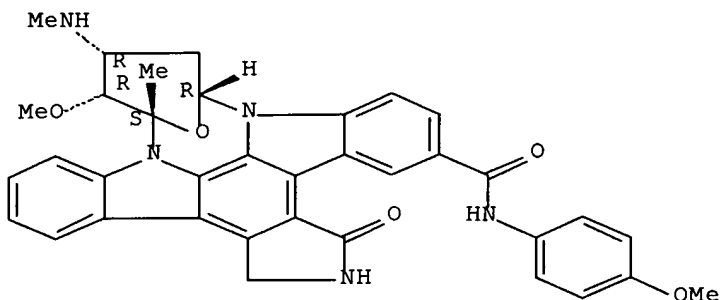


RN 320384-33-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, 2,3,10,11,12,13-hexahydro-12-methoxy-

N-(4-methoxyphenyl)-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

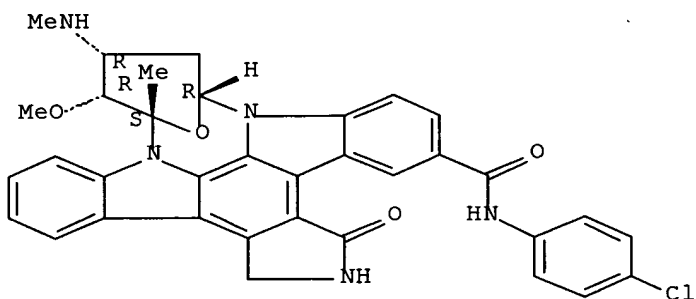
Absolute stereochemistry.



RN 320384-34-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxamide, N-(4-chlorophenyl)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)-  
(9CI) (CA INDEX NAME)

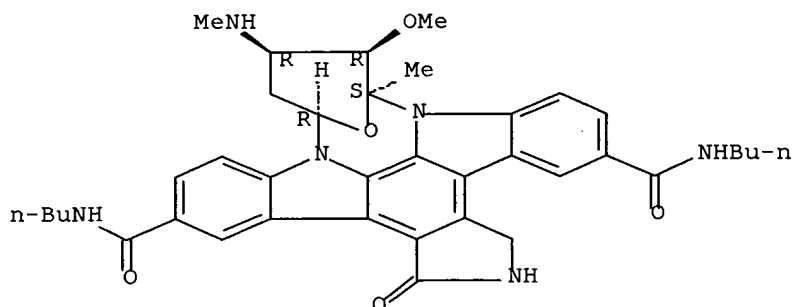
Absolute stereochemistry.



RN 320384-35-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxamide, N,N'-dibutyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-, (9S,10R,11R,13R)-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

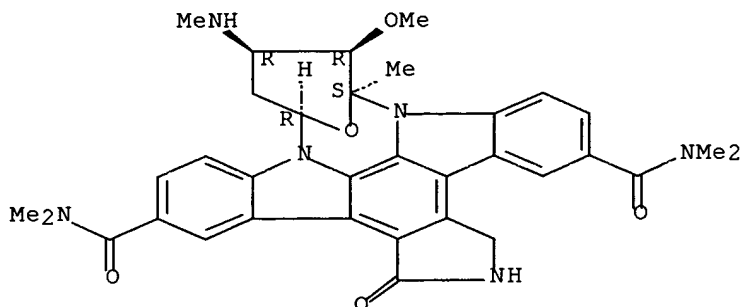


RN 320384-36-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-

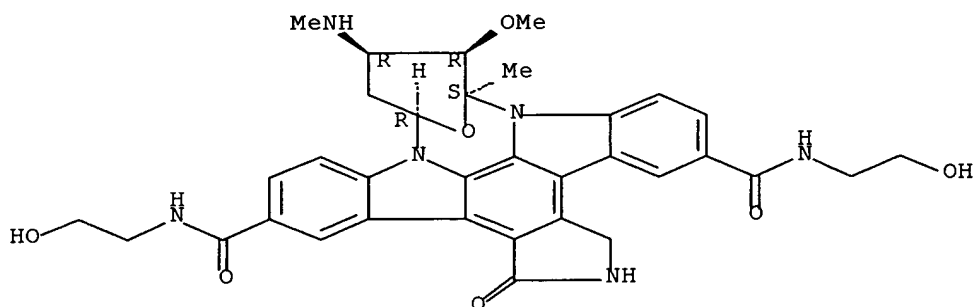
j][1,7]benzodiazonine-5,17-dicarboxamide, 2,3,10,11,12,13-hexahydro-10-methoxy-N,N,N',N',9-pentamethyl-11-(methylamino)-1-oxo-, (9S,10R,11R,13R)-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



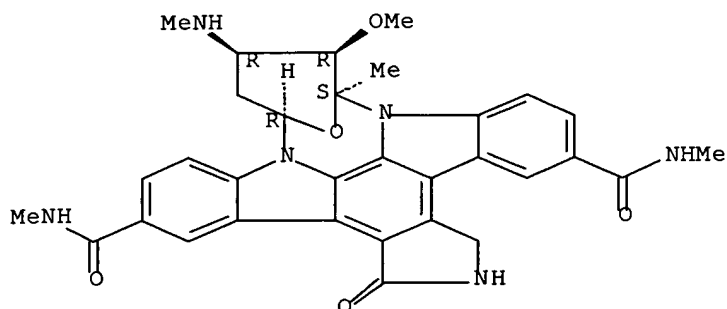
RN 320384-37-0 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxamide, 2,3,10,11,12,13-hexahydro-N,N'-bis(2-hydroxyethyl)-10-methoxy-9-methyl-11-(methylamino)-1-oxo-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-38-1 CAPLUS  
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxamide, 2,3,10,11,12,13-hexahydro-10-methoxy-N,N',9-trimethyl-11-(methylamino)-1-oxo-, (9S,10R,11R,13R)-  
(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



IT 135384-18-8P 135384-19-9P 135384-20-2P  
 135384-21-3P 138585-98-5P 320384-39-2P  
 320384-40-5P 320384-41-6P 320384-42-7P  
 320384-43-8P 320384-44-9P 320384-50-7P  
 320384-51-8P 320384-54-1P 320384-55-2P  
 320384-56-3P 320384-57-4P 320384-58-5P  
 320384-59-6P 320384-60-9P 320384-61-0P  
 320384-62-1P 320384-63-2P 320384-64-3P  
 320384-65-4P 320384-66-5P 320384-67-6P  
 320384-68-7P 320384-69-8P 320384-70-1P  
 320384-71-2P 320384-72-3P 320384-73-4P  
 320384-74-5P 320384-75-6P 320384-76-7P  
 320384-77-8P 320384-78-9P 320384-79-0P  
 320384-80-3P 320384-84-7P 320384-85-8P  
 320384-86-9P 320384-87-0P 320384-88-1P  
 320384-89-2P 320384-90-5P 320384-91-6P  
 320384-92-7P 320384-93-8P 320384-94-9P  
 320384-95-0P 320384-96-1P 320384-97-2P  
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

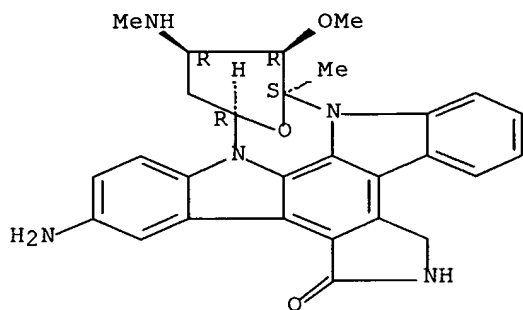
(Reactant or reagent)

(prepn. of staurosporin derivs. as antitumor agents)

RN 135384-18-8 CAPLUS

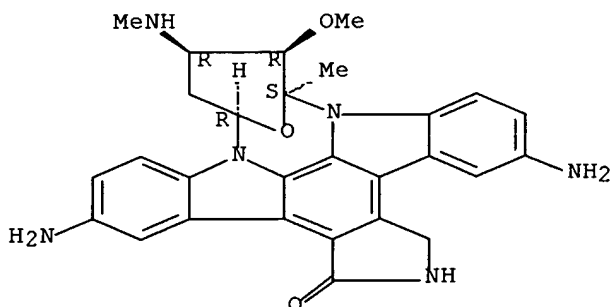
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



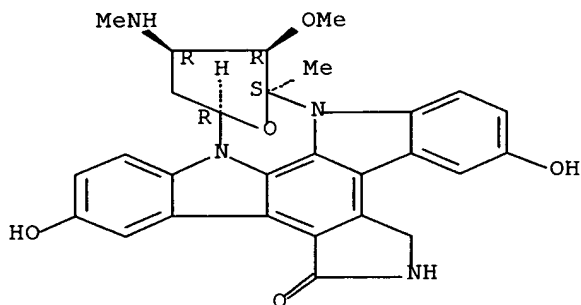
RN 135384-19-9 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



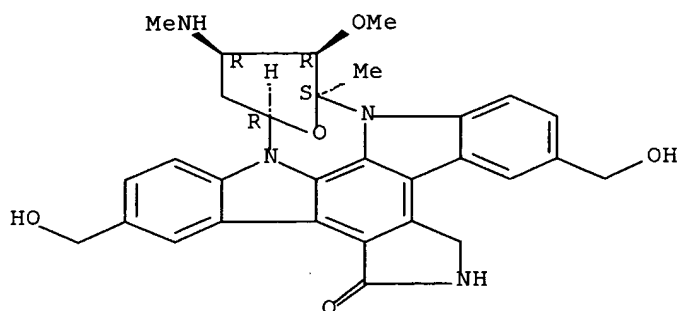
RN 135384-20-2 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 135384-21-3 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

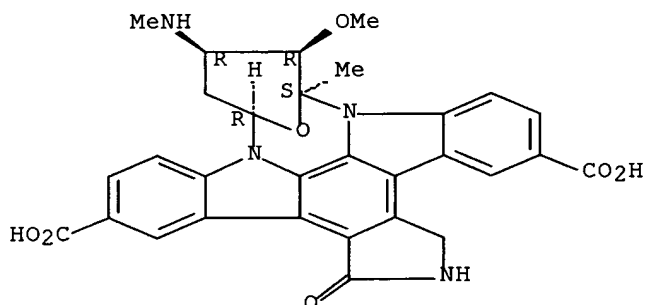
Absolute stereochemistry.



RN 138585-98-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxylic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

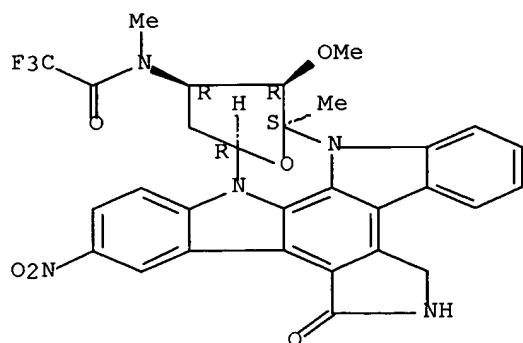
Absolute stereochemistry.



RN 320384-39-2 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

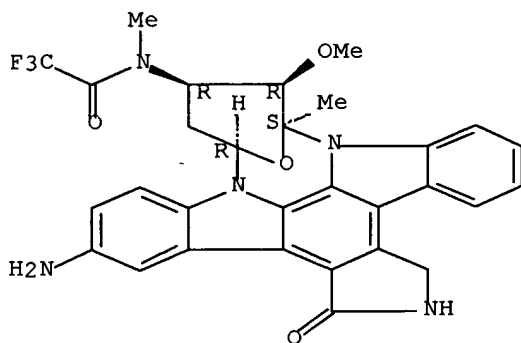


RN 320384-40-5 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-amino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl-

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

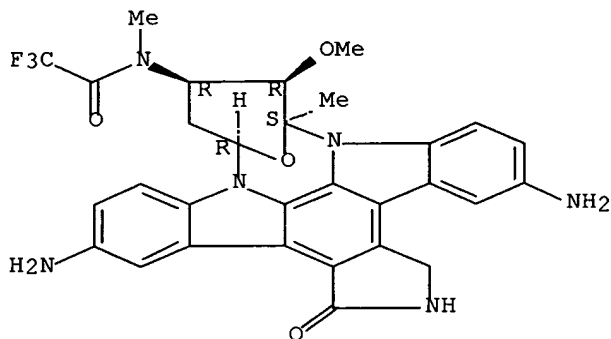


RN 320384-41-6 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl-

(9CI) (CA INDEX NAME)

Absolute stereochemistry.



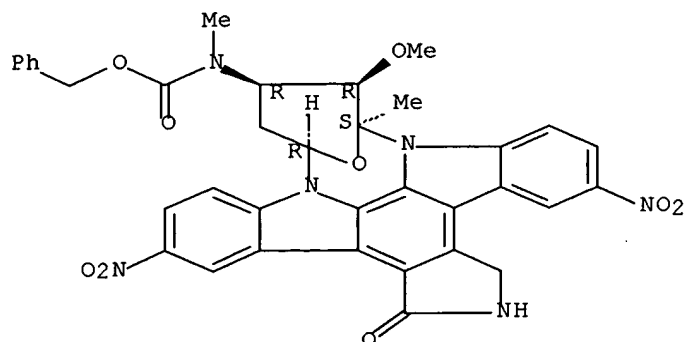
RN 320384-42-7 CAPLUS

CN Carbamic acid, [(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5,17-dinitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]methyl-, phenylmethyl ester

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

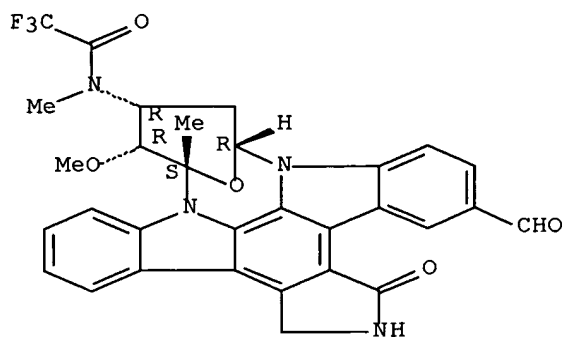




RN 320384-43-8 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-17-formyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI)  
(CA INDEX NAME)

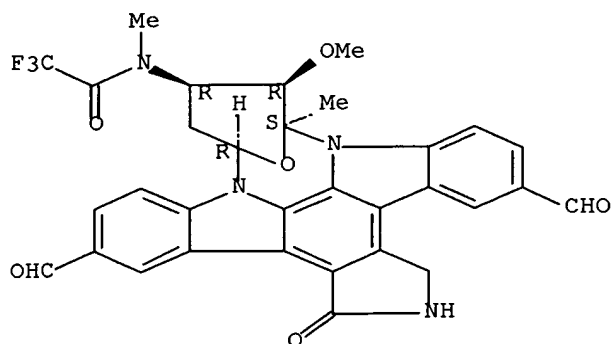
Absolute stereochemistry.



RN 320384-44-9 CAPLUS

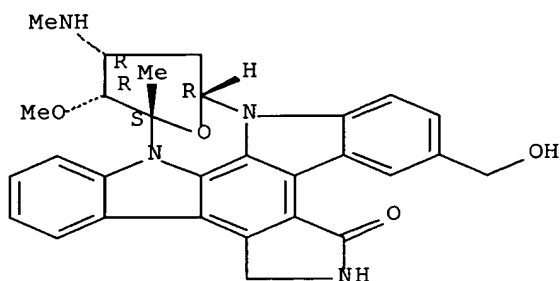
CN Acetamide, N-[(9S,10R,11R,13R)-5,17-diformyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



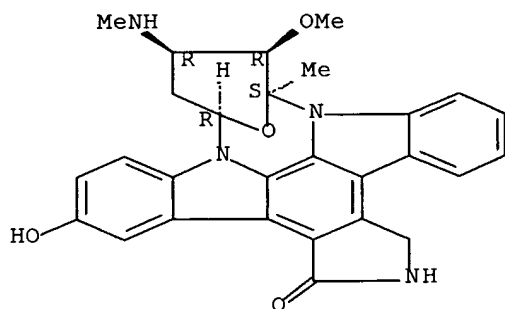
RN 320384-50-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-51-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

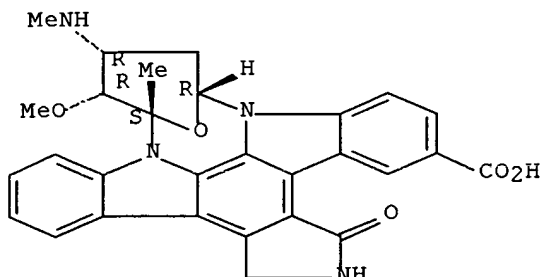
Absolute stereochemistry.



RN 320384-54-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxylic acid, 2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-(methylamino)-3-oxo-, (9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

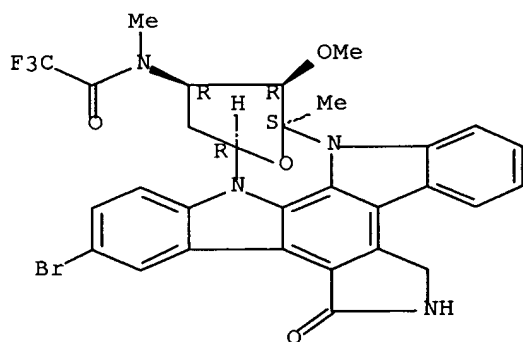
Absolute stereochemistry.



RN 320384-55-2 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI)  
(CA INDEX NAME)

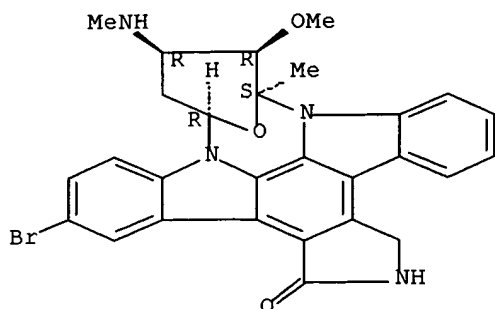
Absolute stereochemistry.



RN 320384-56-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

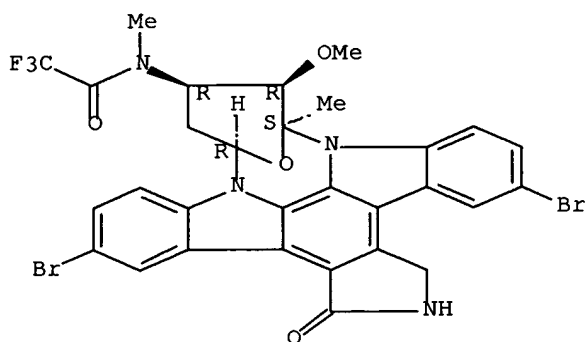


RN 320384-57-4 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-5,17-dibromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl-

(9CI) (CA INDEX NAME)

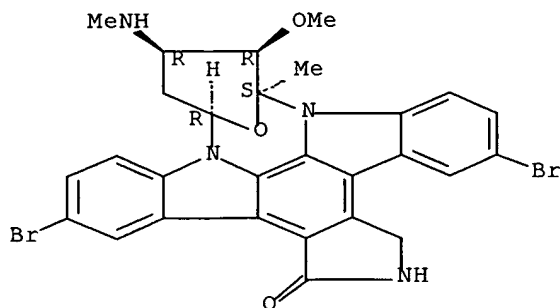
Absolute stereochemistry.



RN 320384-58-5 CAPLUS

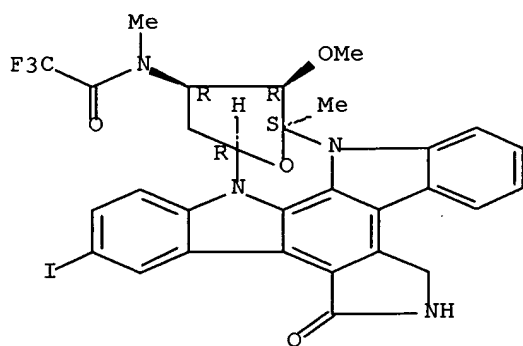
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-dibromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



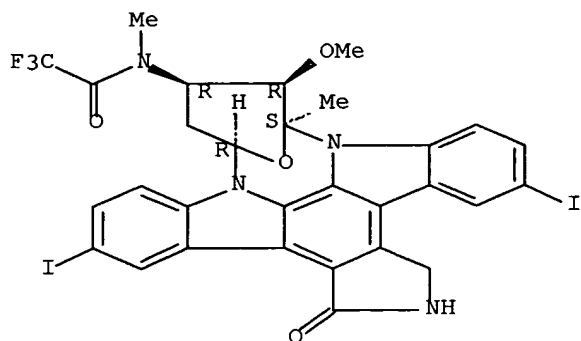
RN 320384-59-6 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-7-iodo-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



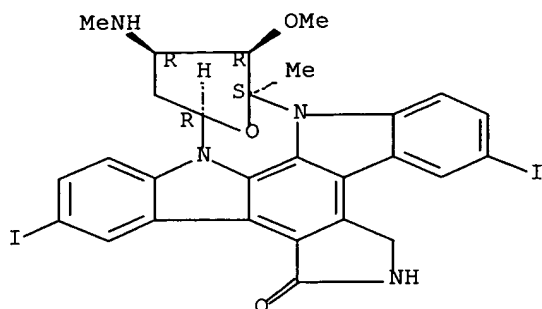
RN 320384-60-9 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-5,17-diiodo-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-61-0 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-diiodo-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

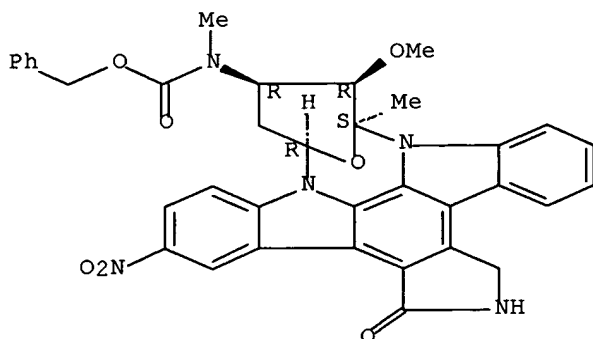
Absolute stereochemistry.



RN 320384-62-1 CAPLUS

CN Carbamic acid, [(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

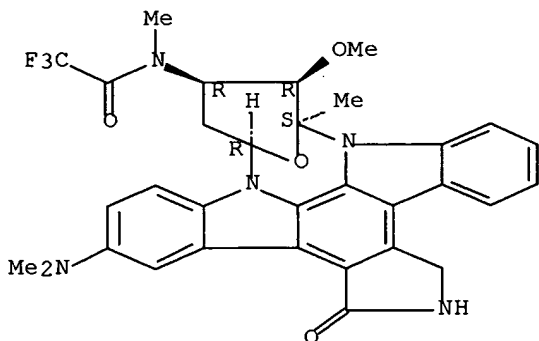
Absolute stereochemistry.



RN 320384-63-2 CAPLUS

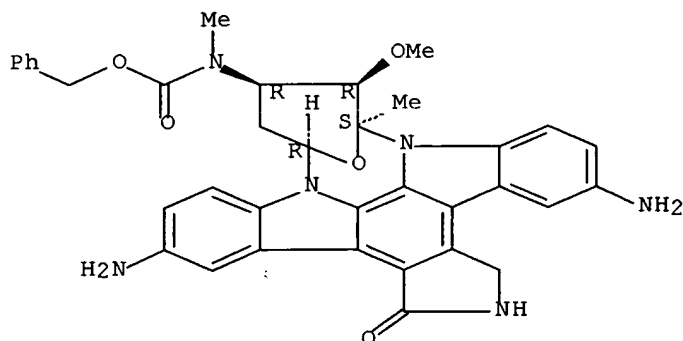
CN Acetamide, N-[(9S,10R,11R,13R)-17-(dimethylamino)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



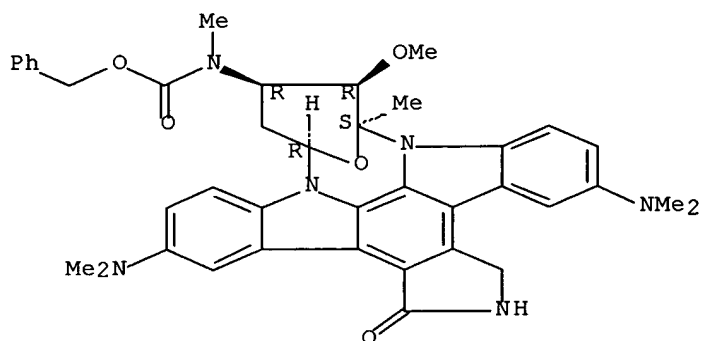
RN 320384-64-3 CAPLUS  
 CN Carbamic acid, [(9S,10R,11R,13R)-5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



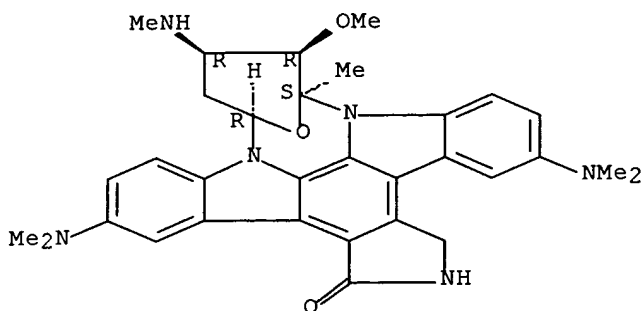
RN 320384-65-4 CAPLUS  
 CN Carbamic acid, [(9S,10R,11R,13R)-5,17-bis(dimethylamino)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-66-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis(dimethylamino)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



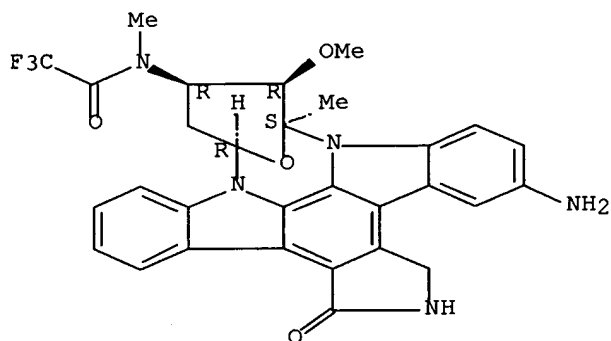
RN 320384-67-6 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-5-amino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl-

(9CI)

(CA INDEX NAME)

Absolute stereochemistry.



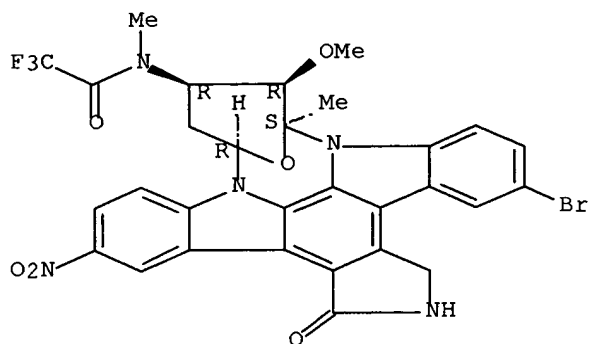
RN 320384-68-7 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-5-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-

N-

methyl- (9CI) (CA INDEX NAME)

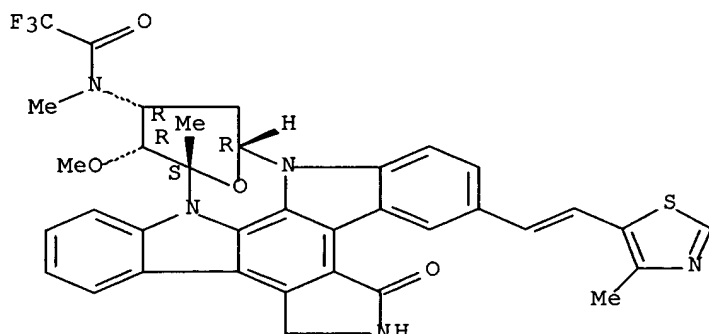
Absolute stereochemistry.





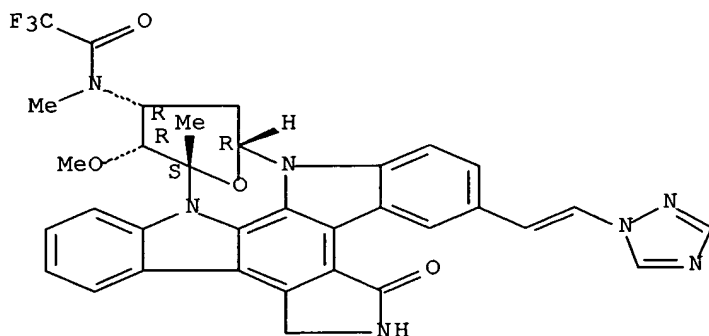
RN 320384-69-8 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-[2-(4-methyl-5-thiazolyl)ethenyl]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



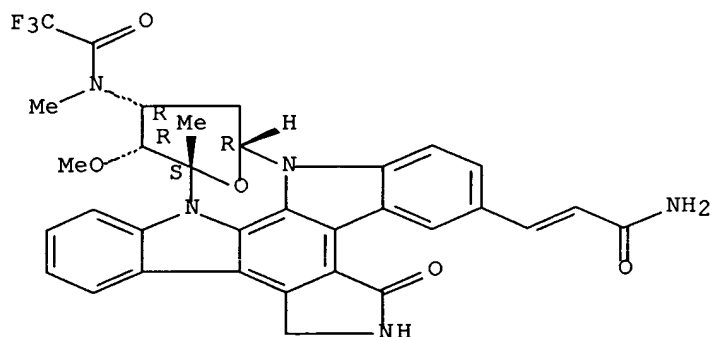
RN 320384-70-1 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[2-(1H-1,2,4-triazol-1-yl)ethenyl]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



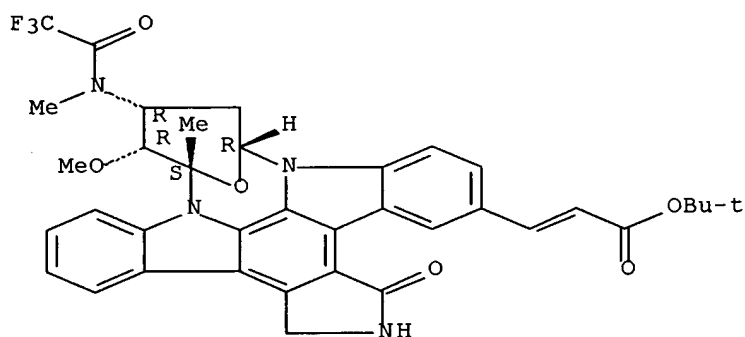
RN 320384-71-2 CAPLUS  
 CN 2-Propenamide, 3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.



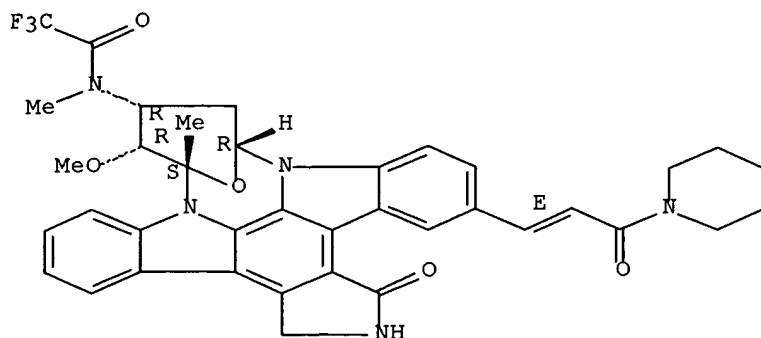
RN 320384-72-3 CAPLUS  
CN 2-Propenoic acid, 3-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.



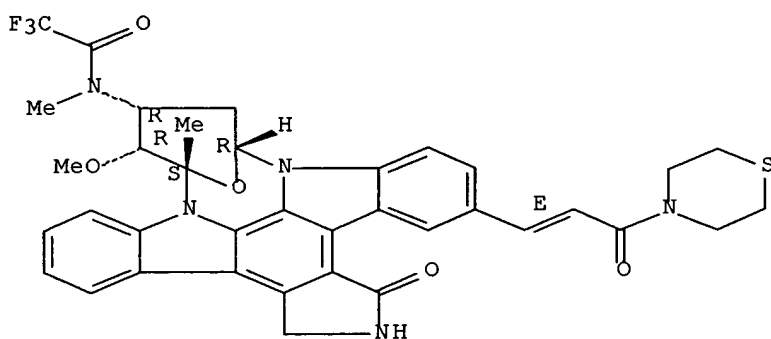
RN 320384-73-4 CAPLUS  
CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[(1E)-3-oxo-3-(1-piperidinyl)-1-propenyl]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



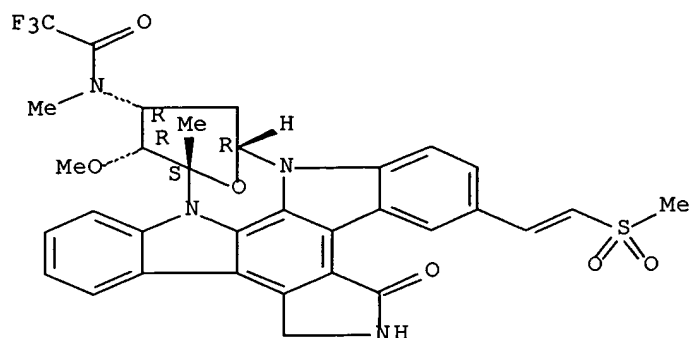
RN 320384-74-5 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[(1E)-3-oxo-3-(4-thiomorpholinyl)-1-propenyl]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry as shown.



RN 320384-75-6 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-[2-(methylsulfonyl)ethenyl]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

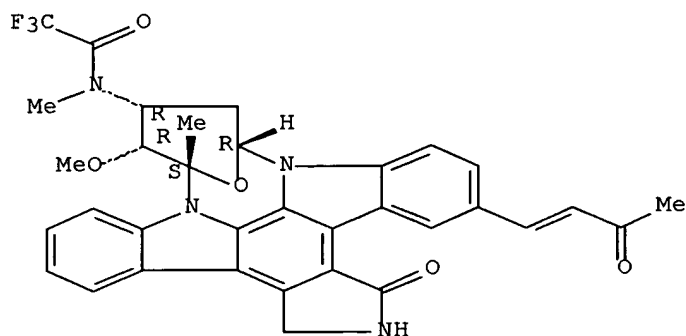
Absolute stereochemistry.  
 Double bond geometry unknown.



RN 320384-76-7 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[(1E)-3-oxo-1-butenyl]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

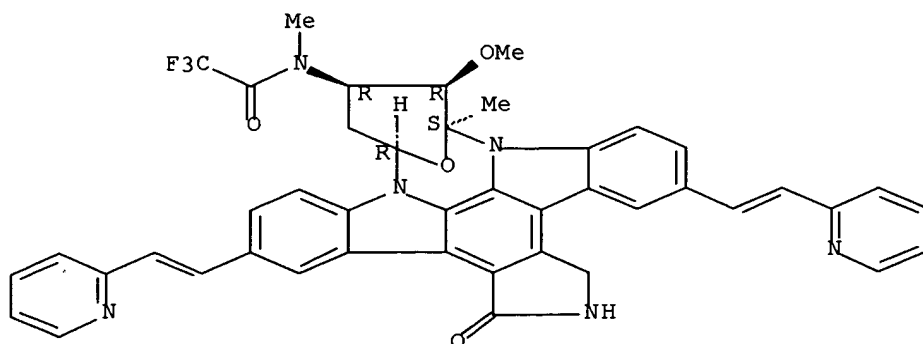
Absolute stereochemistry.  
Double bond geometry unknown.



RN 320384-77-8 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-5,17-bis[2-(2-pyridinyl)ethenyl]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

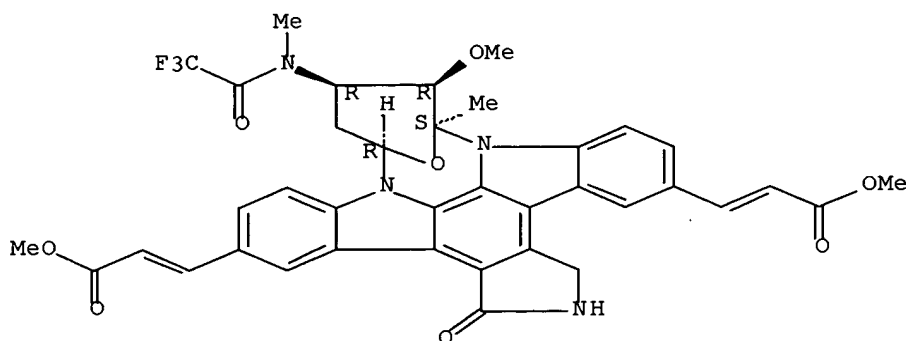


RN 320384-78-9 CAPLUS

CN 2-Propenoic acid, 3,3'-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-[methyl (trifluoroacetyl) amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl]bis-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

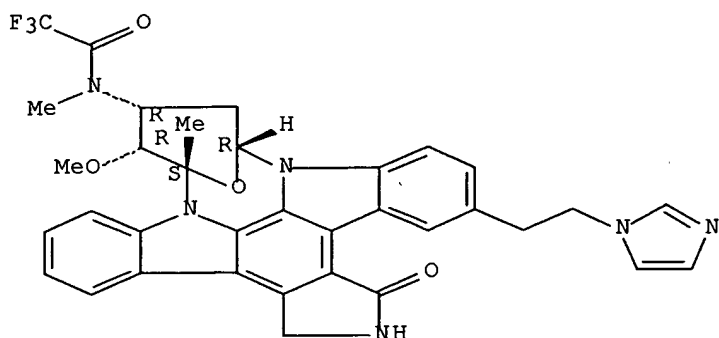
Double bond geometry unknown.



RN 320384-79-0 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-17-[2-(1H-imidazol-1-yl)ethyl]-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

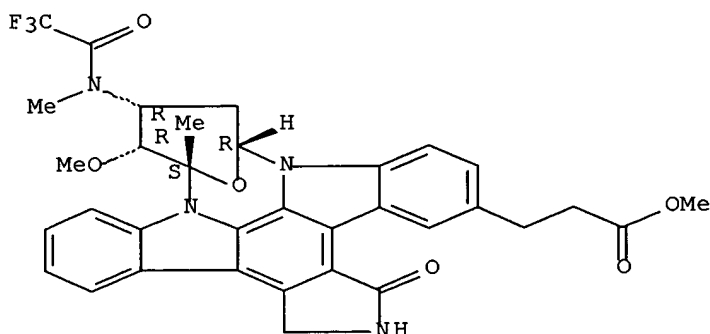
Absolute stereochemistry.



RN 320384-80-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-propanoic acid, 2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-, methyl ester,  
(9R,11R,12R,13S)- (9CI) (CA INDEX NAME)

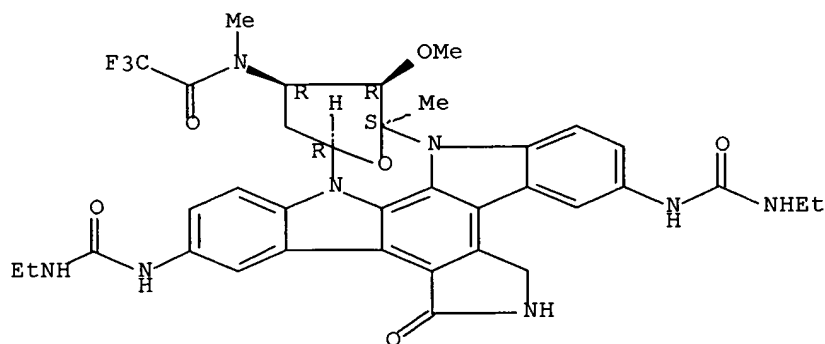
Absolute stereochemistry.



RN 320384-84-7 CAPLUS

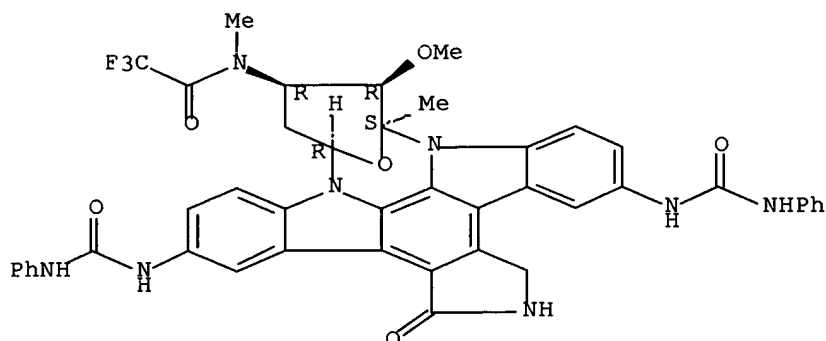
CN Acetamide, N-[(9S,10R,11R,13R)-5,17-bis[[ (ethylamino) carbonyl] amino]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



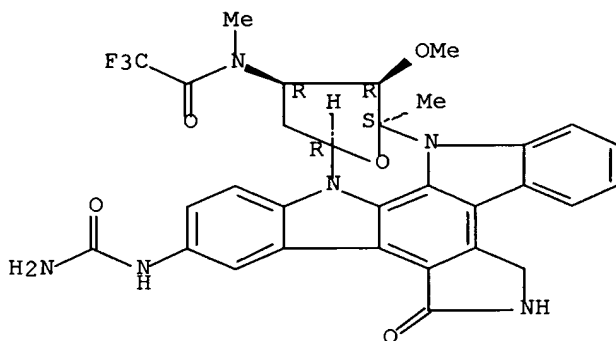
RN 320384-85-8 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-5,17-bis[[ (phenylamino) carbonyl] amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



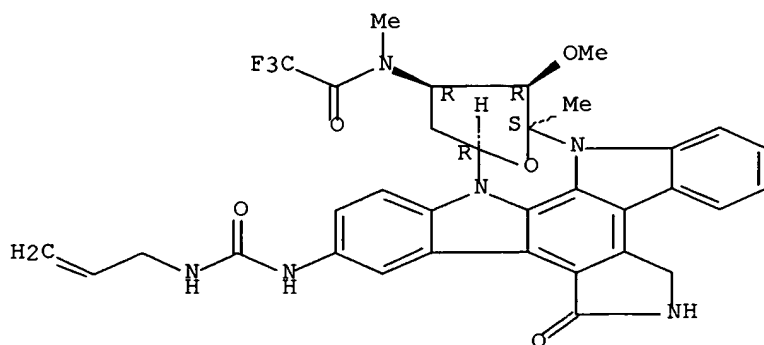
RN 320384-86-9 CAPLUS  
 CN Acetamide, N-[(9S,10R,11R,13R)-17-[(aminocarbonyl) amino]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-87-0 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[[ (2-propenylamino) carbonyl] amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



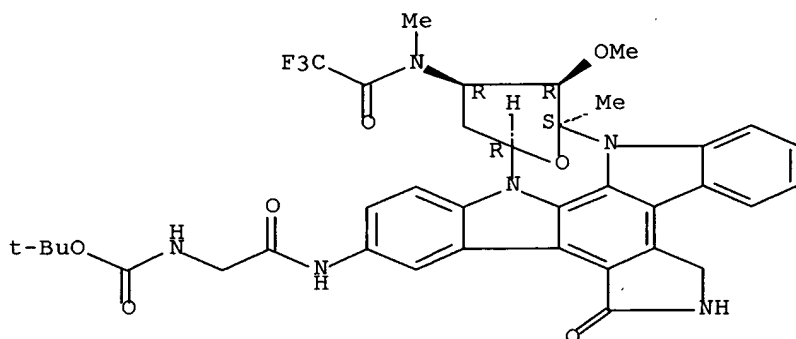
RN 320384-88-1 CAPLUS

CN Carbamic acid, [2-[[ (9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-

13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]amino]-

2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



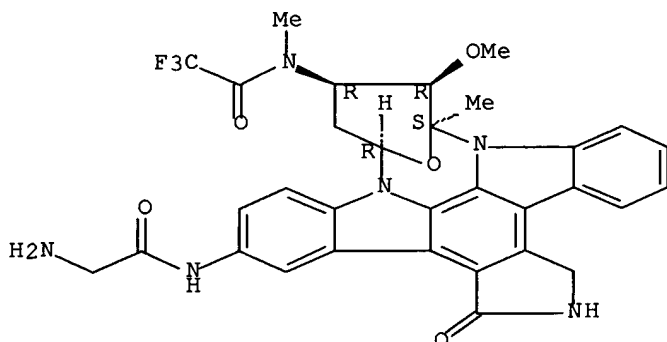
RN 320384-89-2 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-[(aminoacetyl)amino]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-

N-methyl- (9CI) (CA INDEX NAME)

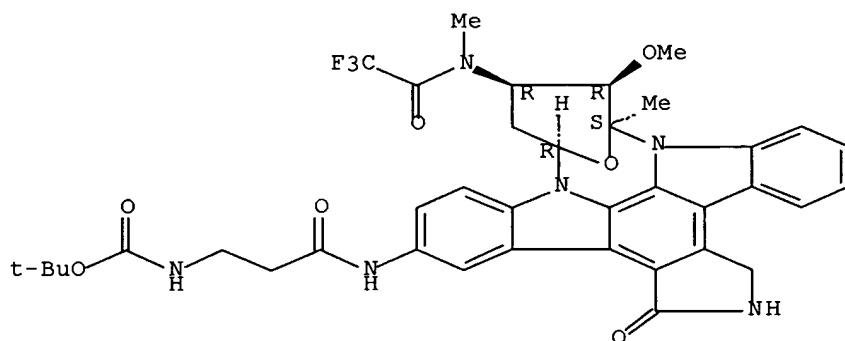
Absolute stereochemistry.





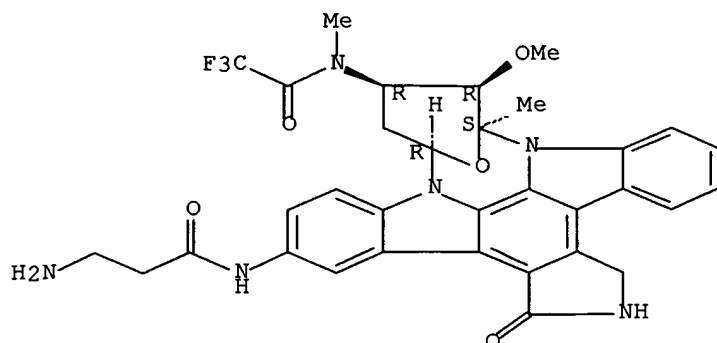
RN 320384-90-5 CAPLUS  
 CN Carbamic acid, [3-[[ (9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]amino]-3-oxopropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 320384-91-6 CAPLUS  
 CN Propanamide, 3-amino-N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-(9CI) (CA INDEX NAME)

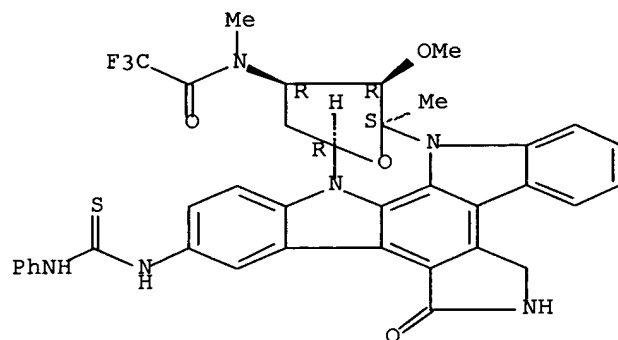
Absolute stereochemistry.



RN 320384-92-7 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[[ (phenylamino)thioxomethyl]amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

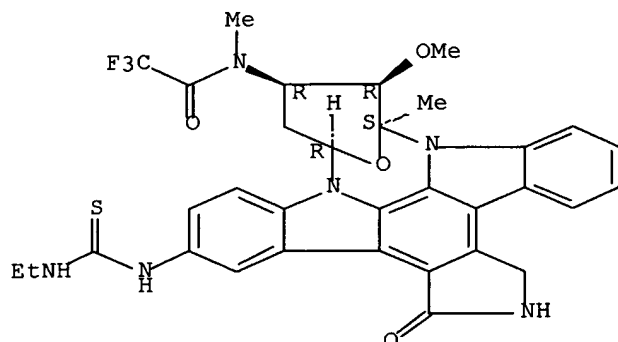
Absolute stereochemistry.



RN 320384-93-8 CAPLUS

CN Acetamide, N-[(9S,10R,11R,13R)-17-[[ (ethylamino)thioxomethyl]amino]-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

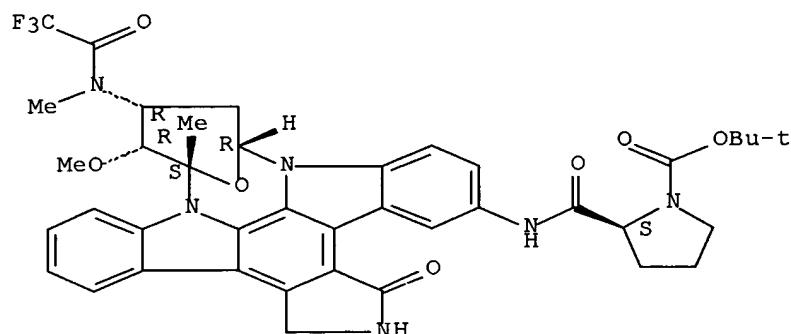
Absolute stereochemistry.



RN 320384-94-9 CAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA INDEX NAME)

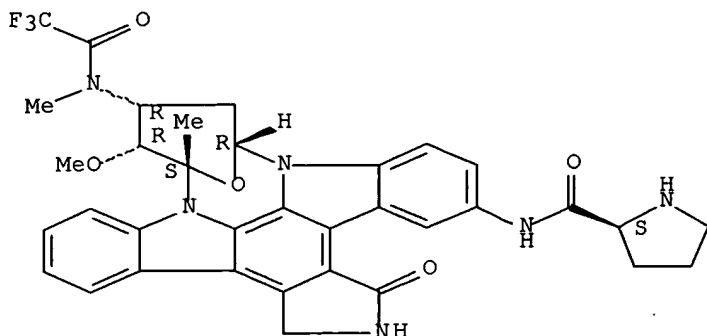
Absolute stereochemistry.



RN 320384-95-0 CAPLUS

CN 2-Pyrrolidinecarboxamide, N-[(9R,11R,12R,13S)-2,3,10,11,12,13-hexahydro-12-methoxy-13-methyl-11-[methyl(trifluoroacetyl)amino]-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-, (2S)- (9CI) (CA INDEX NAME)

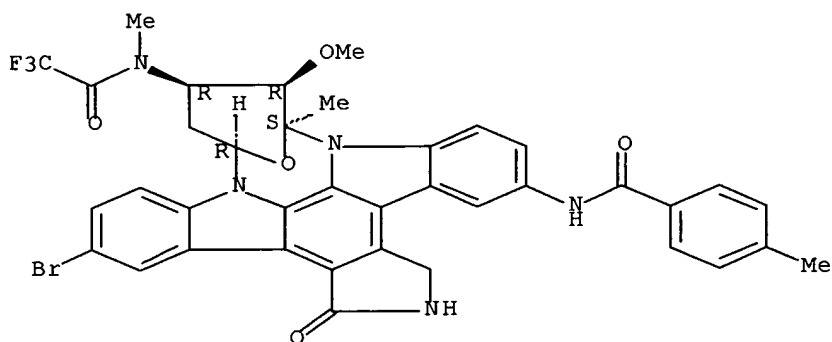
Absolute stereochemistry.



RN 320384-96-1 CAPLUS

CN Benzamide, N-[(9S,10R,11R,13R)-17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-[methyl(trifluoroacetyl)amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methyl- (9CI) (CA INDEX NAME)

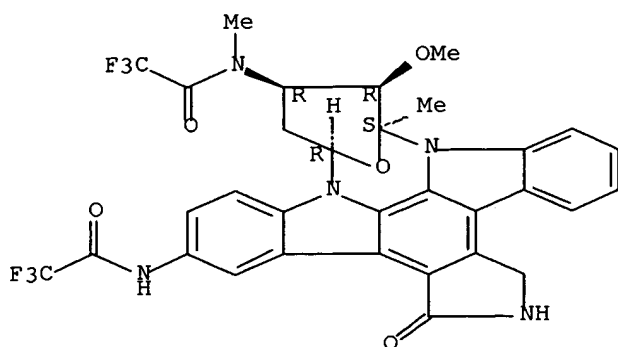
Absolute stereochemistry.



RN 320384-97-2 CAPLUS

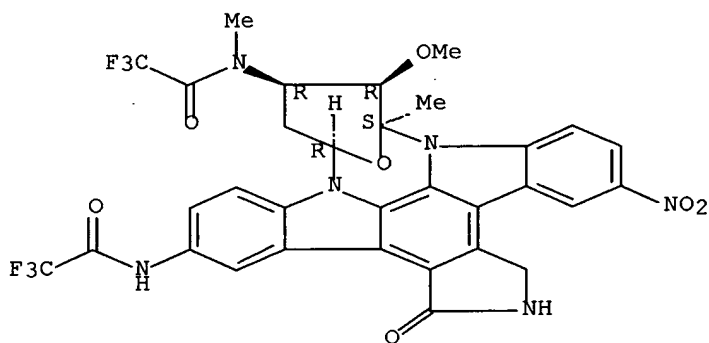
CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[(trifluoroacetyl)amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



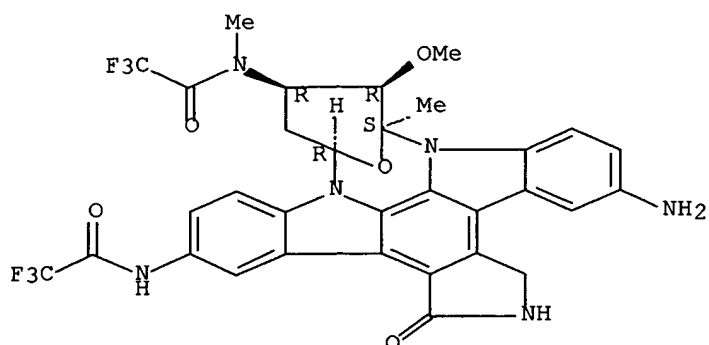
RN 320384-98-3 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5-nitro-1-oxo-17-[(trifluoroacetyl)amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



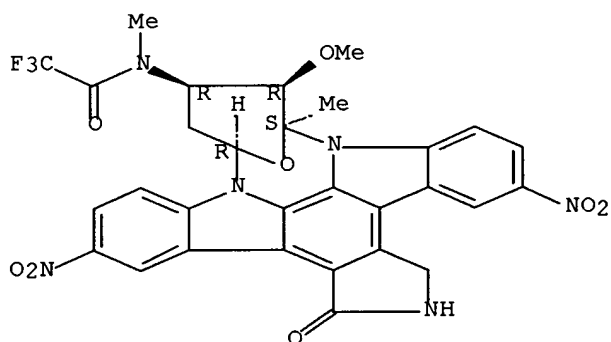
RN 320384-99-4 CAPLUS  
 CN Acetamide, N-[(9S,10R,11R,13R)-5-amino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-[(trifluoroacetyl)amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



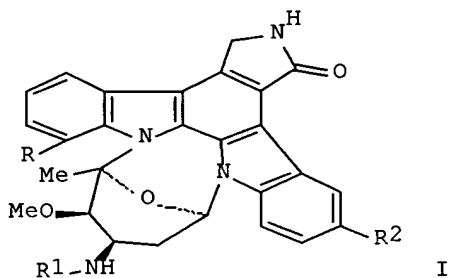
RN 320385-02-2 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-[(9S,10R,11R,13R)-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5,17-dinitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]-N-methyl- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



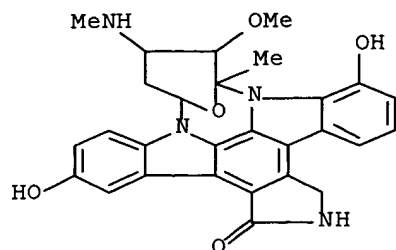
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 2000:269598 CAPLUS  
 DN 133:14836  
 TI A new staurosporine analog from the prosobranch mollusk *Coriocella nigra*  
 AU Cantrell, Charles L.; Groweiss, Amiram; Gustafson, Kirk R.; Boyd, Michael R.  
 CS Division of Cancer Treatment, Diagnosis, Laboratory of Drug Discovery Research and Development, Developmental Therapeutics Program, Frederick, MD, 21702-1201, USA  
 SO Natural Product Letters (1999), 14(1), 39-46  
 CODEN: NPLEEF; ISSN: 1057-5634  
 PB Harwood Academic Publishers  
 DT Journal  
 LA English  
 GI



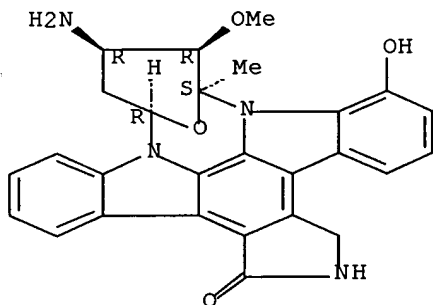
AB A new staurosporine analog, 4'-N-demethyl-11-hydroxystaurosporine I (R = OH, R1 = R2 = H), was isolated by cytotoxicity-guided fractionation of an org. ext. of the prosobranch mollusk *Coriocella nigra*. The known staurosporine deriv. 3,11-dihydroxystaurosporine I (R = R2 = OH, R1 = Me) was also isolated from this ext. Concurrent investigations of *Coriocella hibiya* resulted in the isolation of two known compds., lamellarins C and U. The structures of all four alkaloids were elucidated by spectroscopic methods and the compds. were evaluated for cytotoxicity against 10 human tumor cell lines. 4'-N-demethyl-11-hydroxystaurosporine and 3,11-dihydroxystaurosporine demonstrated potent cytotoxic activity with IC50's ranging from approx. 2 to 66 ng/mL.  
 IT **143682-18-2P**, 3,11-Dihydroxystaurosporine **272766-45-7P**, 4'-N-Demethyl-11-hydroxystaurosporine  
 RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
 (isolation, antitumor activity, and mol. structure of 4'-N-demethyl-11-hydroxystaurosporine, a new staurosporine analog from the prosobranch mollusk, *Coriocella nigra*)  
 RN 143682-18-2 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX

NAME)



RN 272766-45-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 11-amino-2,3,10,11,12,13-hexahydro-7-hydroxy-10-methoxy-9-methyl-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

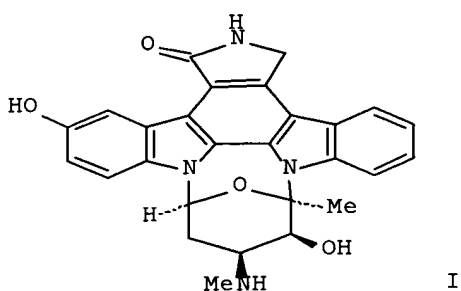
Absolute stereochemistry.



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

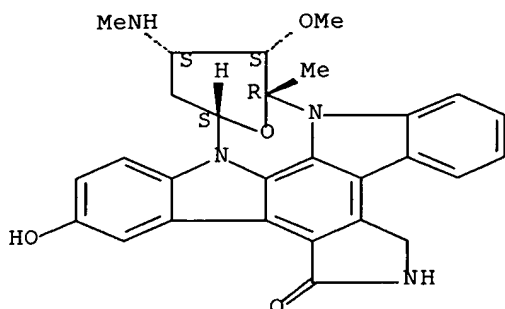


L8 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1999:346583 CAPLUS  
 DN 131:182513  
 TI Staurosporine derivatives from the ascidian *Eudistoma toعالensis* and its predatory flatworm *Pseudoceros* sp.  
 AU Schupp, Peter; Eder, Claudia; Proksch, Peter; Wray, Victor; Schneider, Bernd; Herderich, Markus; Paul, Valerie  
 CS Lehrstuhl fuer Pharmazeutische Biologie, Julius-von-Sachs-Institut fuer Biowissenschaften, Wuerzburg, D-97082, Germany  
 SO Journal of Natural Products (1999), 62(7), 959-962  
 CODEN: JNPRDF; ISSN: 0163-3864  
 PB American Chemical Society  
 DT Journal  
 LA English  
 GI



AB Two new indolocarbazole alkaloids, 3-hydroxy-3'-demethoxy-3'-hydroxystaurosporine (I) and 11-hydroxy-4'-N-demethylstaurosporine, were isolated from the marine ascidian *Eudistoma toعالensis* and its predator, the marine flatworm *Pseudoceros* sp. In addn., five known derivs. were isolated in their protonated states, which caused the pyran-ring system to adopt a boat conformation. The structures were detd. by 1D and 2D homonuclear and 1H-detected heteronuclear NMR spectroscopy and from comparisons with published data. The heteronuclear correlations were necessary to establish reliable data for the structure elucidation.  
 IT 239785-02-5  
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)  
 (staurosporine derivs. from ascidian *Eudistoma toعالensis* and predatory flatworm *Pseudoceros* sp.)  
 RN 239785-02-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9R,10S,11S,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



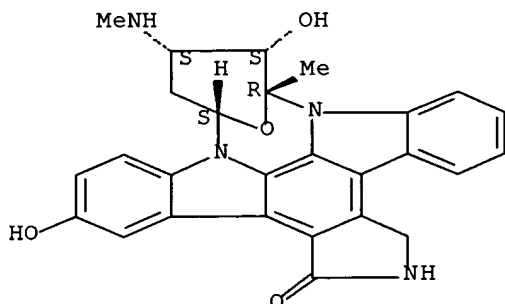
IT 239785-04-7P 239785-05-8P

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
 PRP (Properties); PUR (Purification or recovery); BIOL (Biological  
 study); OCCU (Occurrence); PREP (Preparation)  
 (staurosporine derivs. from ascidian *Eudistoma toaealensis* and predatory  
 flatworm *Pseudoceros* sp.)

RN 239785-04-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10,17-dihydroxy-9-  
 methyl-11-(methylamino)-, (9R,10S,11S,13S)- (9CI) (CA INDEX NAME)

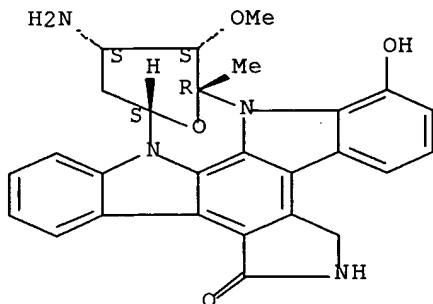
Absolute stereochemistry.



RN 239785-05-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 11-amino-2,3,10,11,12,13-hexahydro-7-  
 hydroxy-10-methoxy-9-methyl-, (9R,10S,11S,13S)- (9CI) (CA INDEX NAME)

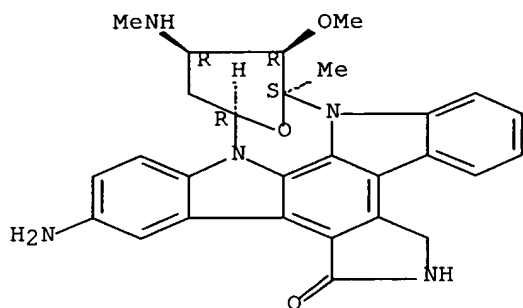
Absolute stereochemistry.



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

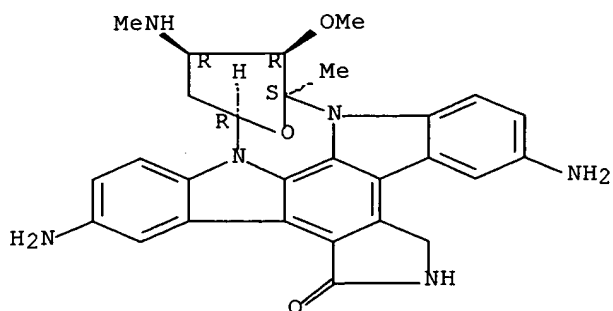
L8 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1996:652181 CAPLUS  
 DN 126:19087  
 TI Synthesis and anti-platelet aggregation activity of water-soluble staurosporine derivatives  
 AU Yamada, Rintaro; Seto, Minoru; Sasaki, Yasuharu; Sunazuka, Toshiaki; Harigaya, Yoshihiro; Iwai, Yuzuru; Omura, Satoshi  
 CS Kitasato Inst., Kitasato Univ., Tokyo, 108, Japan  
 SO Journal of Antibiotics (1996), 49(10), 1070-1072  
 CODEN: JANTAJ; ISSN: 0021-8820  
 PB Japan Antibiotics Research Association  
 DT Journal  
 LA English  
 AB Several substituted staurosporine derivs. were prepd. from staurosporine in order to improve the soly. The 3,9-diamino deriv. had blood platelet aggregation and protein kinase inhibiting activity similar to that of staurosporine, but its hydrochloride had a soly. of >400 mg/mL in water.  
 IT **135384-18-8P 135384-19-9P 135384-20-2P**  
**135384-21-3P 138585-98-5P**  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and platelet aggregation-inhibiting activity of water-sol. staurosporine derivs.)  
 RN 135384-18-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 135384-19-9 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

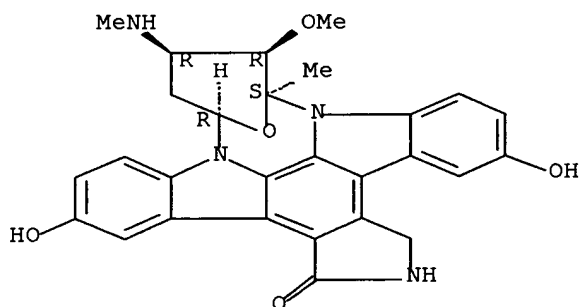
Absolute stereochemistry.



RN 135384-20-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

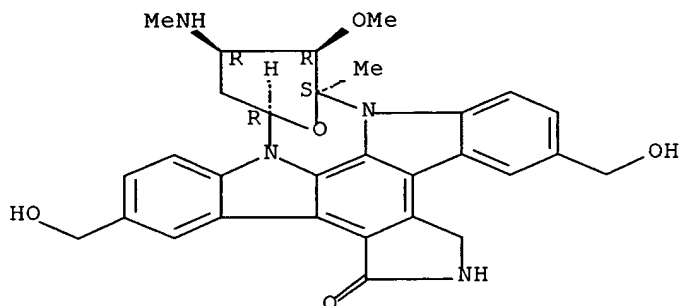
Absolute stereochemistry.



RN 135384-21-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



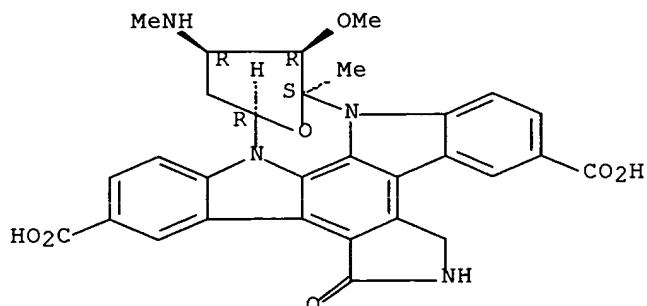
RN 138585-98-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxylic acid, 2,3,10,11,12,13-hexahydro-

10-

methoxy-9-methyl-11-(methylamino)-1-oxo-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 184180-07-2P 184180-08-3P 184180-09-4P

184180-10-7P 184180-11-8P

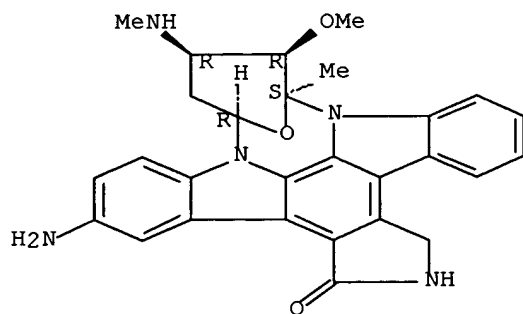
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and platelet aggregation-inhibiting activity of water-sol. staurosporine derivs.)

RN 184180-07-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-10-methoxy-

9-methyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



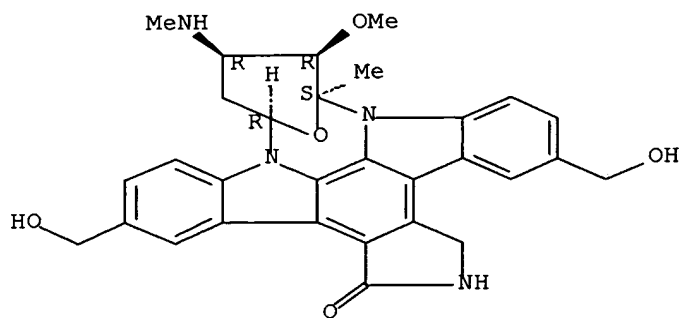
● HCl

RN 184180-08-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI)

(CA INDEX NAME)

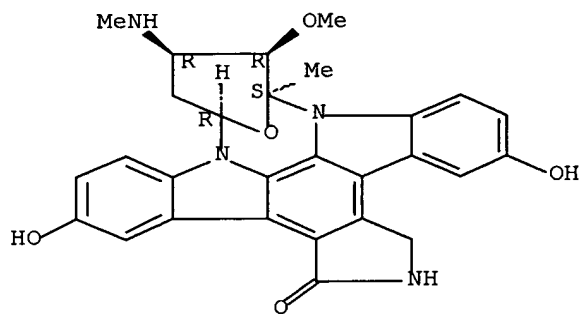
Absolute stereochemistry.



● HCl

RN 184180-09-4 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

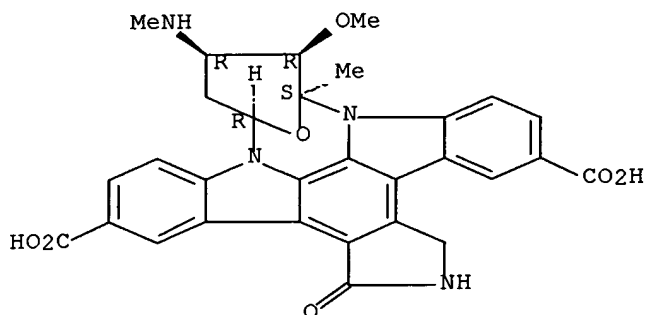
Absolute stereochemistry.



● HCl

RN 184180-10-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxylic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

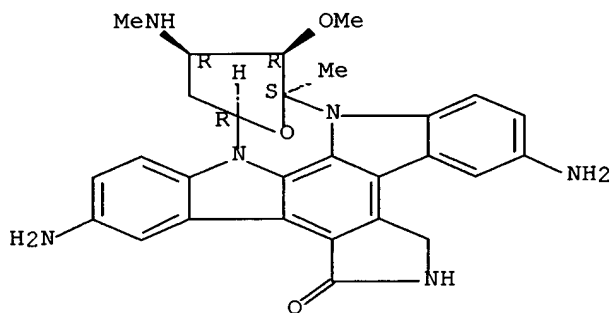
Absolute stereochemistry.



● HCl

RN 184180-11-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

IT 135384-27-9P 135384-28-0P 135384-29-1P  
 135417-39-9P 183999-34-0P 183999-35-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

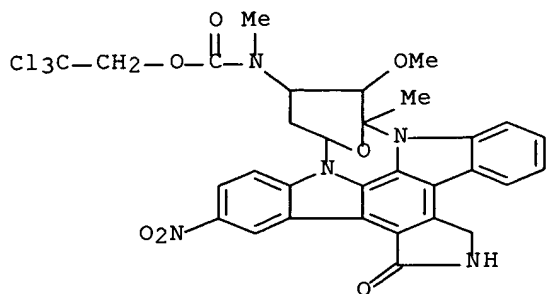
(Reactant or reagent)

(prepn. and platelet aggregation-inhibiting activity of water-sol. staurosporine derivs.)

RN 135384-27-9 CAPLUS

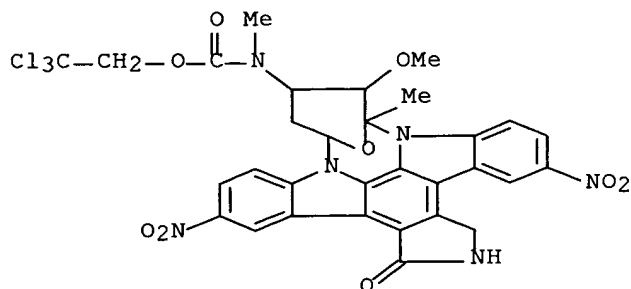
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1-

oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 135384-28-0 CAPLUS

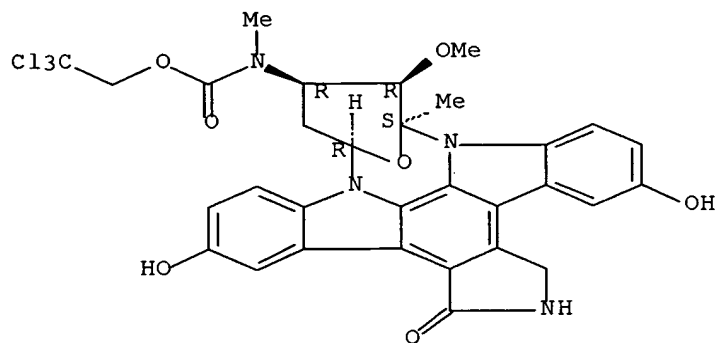
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5,17-dinitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 135384-29-1 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

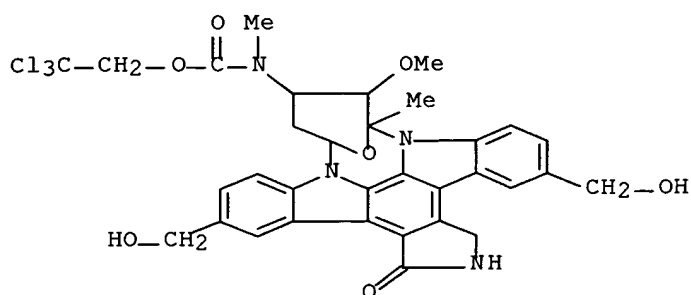


RN 135417-39-9 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-

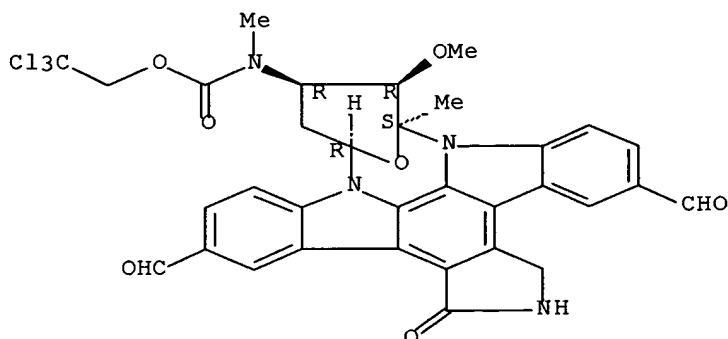


methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



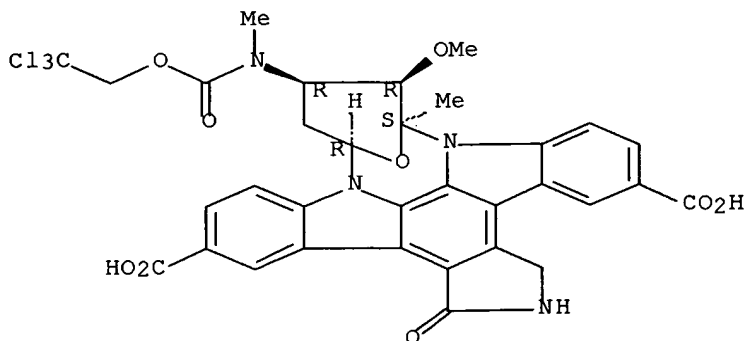
RN 183999-34-0 CAPLUS  
 CN Carbamic acid, (5,17-diformyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 183999-35-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxylic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-[methyl[(2,2,2-trichloroethoxy)carbonyl]amino]-1-oxo-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

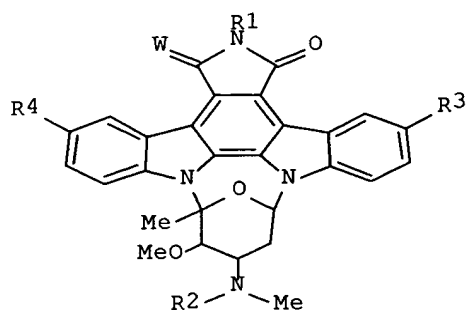
Absolute stereochemistry.



in IPS

L8 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1995:994440 CAPLUS  
 DN 124:87461  
 TI Preparation of indolocarbazole derivatives for treatment of thrombocytopenia.  
 IN Murakata, Chikara; Watanabe, Junichi; Saitoh, Yutaka; Shiotsu, Yukimasa; Shiraki, Takako; Kanai, Fumihiko; Tamaoki, Tatsuya; Akinaga, Shiro; Okabe, Masami  
 PA Kyowa Hakko Kogyo Co., Ltd., Japan  
 SO Eur. Pat. Appl., 36 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | EP 672668  | A1   | 19950920 | EP 1995-103952  | 19950317 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, |      |          |                 |          |
| SE   | JP 08283271  | A2   | 19961029 | JP 1995-50845   | 19950310 |
|      | US 5604219   | A    | 19970218 | US 1995-404961  | 19950316 |
|      | CA 2144941   | AA   | 19950919 | CA 1995-2144941 | 19950317 |
| PRAI | JP 1994-49578  |      | 19940318 |                 |          |
|      | JP 1995-27029  |      | 19950215 |                 |          |
| OS   | MARPAT 124:87461   |      |          |                 |          |
| GI   |  |      |          |                 |          |



I

AB Title compds. I [R1 = (substituted) alkyl; R2 = H, (substituted) alkyl; R3, R4 = H, (substituted) amino, alkanoyloxy, etc.; W = H2, O] and their salts were prepd. Reaction of 2-methyl-17-formylstaurosporine (I; R1 = Me; R2, R4 = H; R3 = CHO; W = H2) with Me2NNH2.HCl in THF/MeOH/H2O at pH 2-4 afforded 46% I (R1 = Me; R2, R4 = H; R3 = C:NNMe2; W = H2) which showed 156% increase of the no. of blood platelets at 12.5 mg/kg in mice.

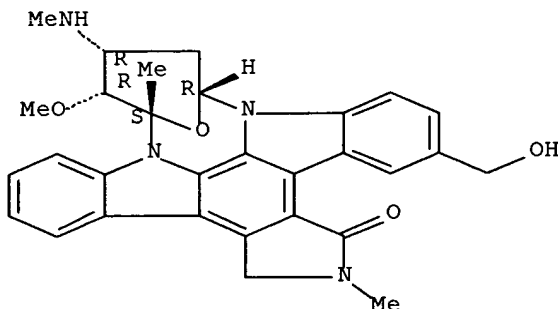
IT 172350-40-2P 172350-41-3P 172350-45-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT

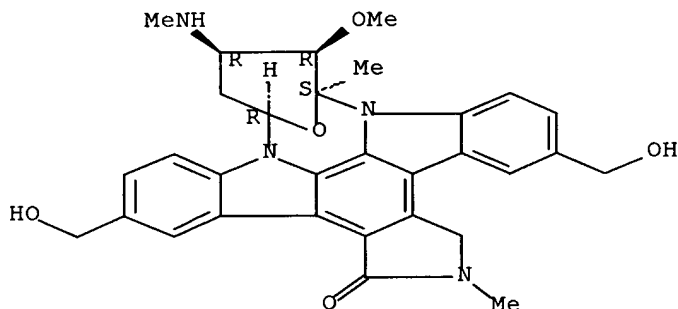
(Reactant or reagent); USES (Uses)  
 (prepn. of indolocarbazole derivs. for treatment of  
 thrombocytopenia.)  
 RN 172350-40-2 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-  
 (hydroxymethyl)-  
 10-methoxy-2,9-dimethyl-11-(methylamino)-, [9S-  
 (9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 172350-41-3 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-  
 bis(hydroxymethyl)-10-methoxy-2,9-dimethyl-11-(methylamino)-,  
 [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

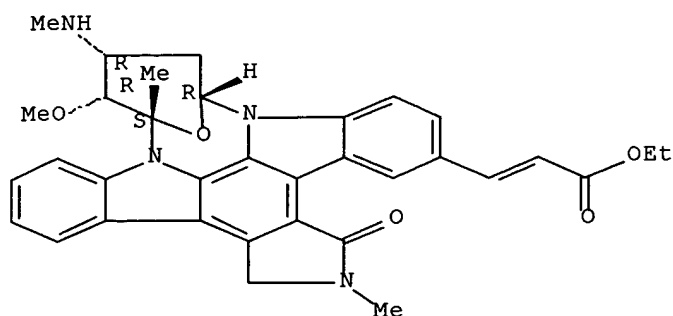
Absolute stereochemistry.



RN 172350-45-7 CAPLUS  
 CN 2-Propenoic acid, 3-[2,3,10,11,12,13-hexahydro-12-methoxy-2,13-dimethyl-  
 11-  
 (methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-  
 lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-, ethyl ester,  
 [9R-(9.alpha.,11.beta.,12.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



IT 172350-42-4P 172350-43-5P 172350-44-6P  
 172350-46-8P 172350-47-9P 172350-48-0P  
 172350-49-1P 172350-50-4P 172350-51-5P  
 172350-52-6P 172350-53-7P 172350-54-8P  
 172350-55-9P 172350-56-0P 172350-57-1P  
 172350-58-2P 172350-59-3P 172350-61-7P  
 172350-62-8P 172350-63-9P 172350-64-0P  
 172350-65-1P 172350-66-2P 172350-67-3P  
 172350-68-4P 172350-69-5P 172350-70-8P  
 172350-71-9P 172350-72-0P 172350-73-1P  
 172350-74-2P 172350-75-3P

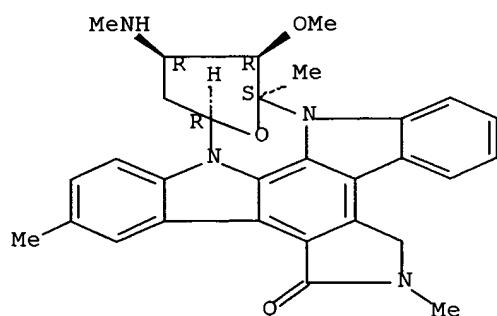
RL: BAC (Biological activity or effector, except adverse); BSU  
 (Biological  
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic  
 use);

BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of indolocarbazole derivs. for treatment of  
 thrombocytopenia.)

RN 172350-42-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9,17-  
 trimethyl-11-(methylamino)-, [9S-  
 (9.alpha.,10.beta.,11.beta.,13.alpha.)]-  
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.

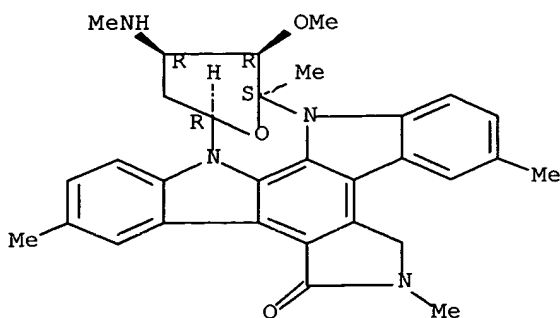


RN 172350-43-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-  
 2,5,9,17-

tetramethyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

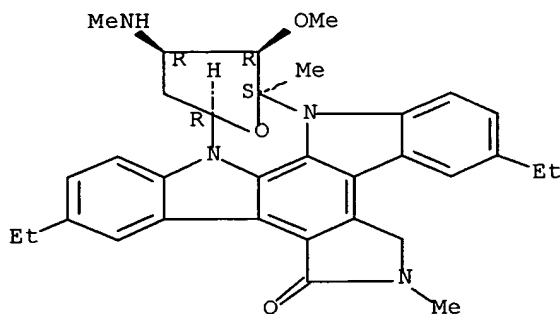


● HCl

RN 172350-44-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diethyl-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

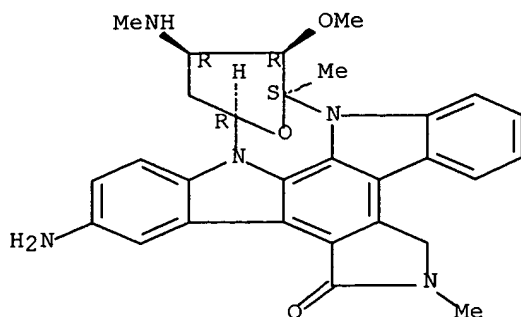


● HCl

RN 172350-46-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, dihydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

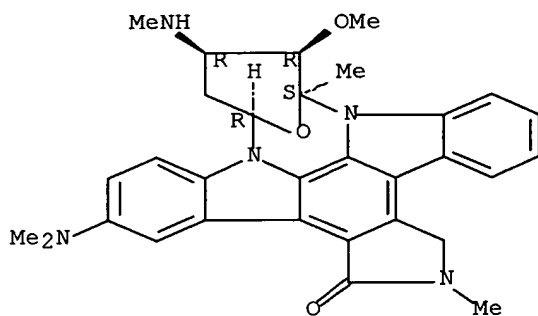
Absolute stereochemistry.



●2 HCl

RN 172350-47-9 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-(dimethylamino)-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, dihydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

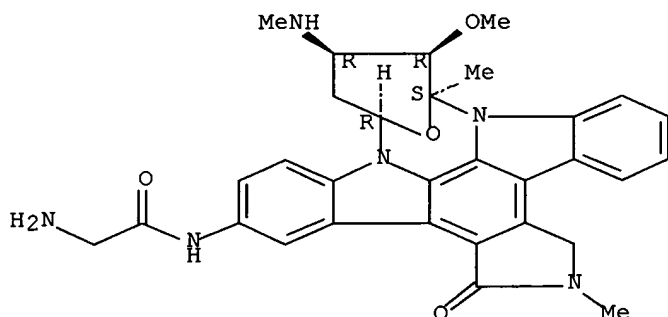
Absolute stereochemistry.



●2 HCl

RN 172350-48-0 CAPLUS  
 CN Acetamide, 2-amino-N-[2,3,10,11,12,13-hexahydro-12-methoxy-2,13-dimethyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-, dihydrochloride, [9R-(9.alpha.,11.beta.,12.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



●2 HCl

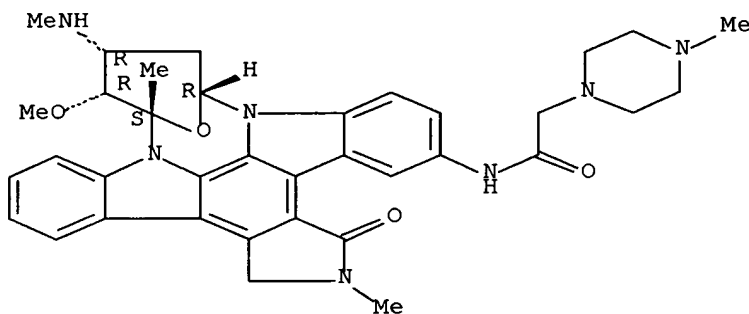
RN 172350-49-1 CAPLUS

CN 1-Piperazineacetamide, N-[2,3,10,11,12,13-hexahydro-12-methoxy-2,13-dimethyl-11-(methylamino)-3-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-5-yl]-4-methyl-, trihydrochloride, [9R-(9.alpha.,11.beta.,12.beta.,13.alpha.)]- (9CI)

(CA

INDEX NAME)

Absolute stereochemistry.

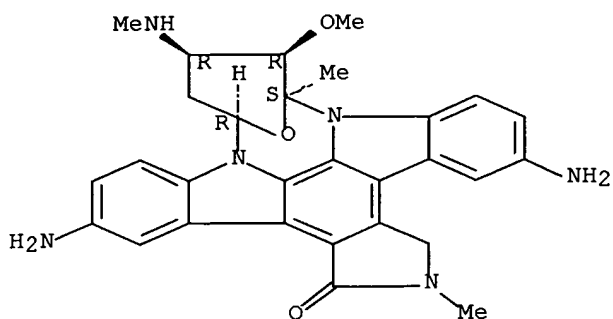


●3 HCl

RN 172350-50-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, trihydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

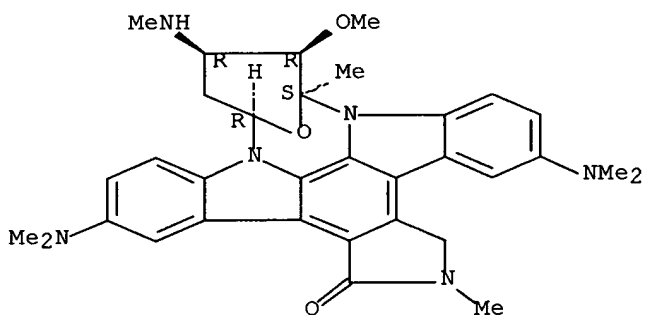


●3 HCl

RN 172350-51-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis(dimethylamino)-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, trihydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



●3 HCl

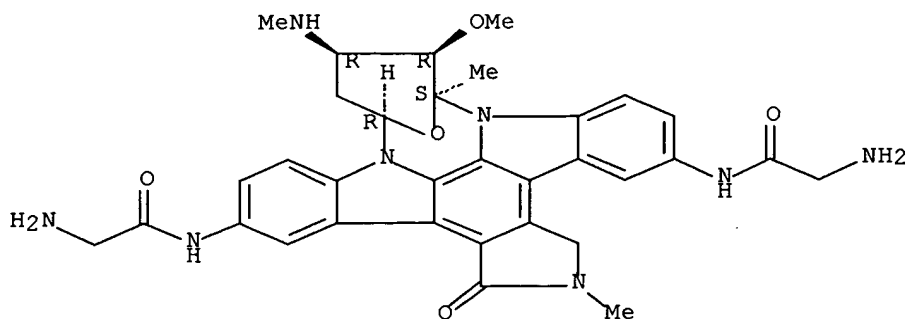
RN 172350-52-6 CAPLUS

CN Acetamide, N,N'-[2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl]bis[2-amino-, trihydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI)

(CA INDEX NAME)

Absolute stereochemistry.

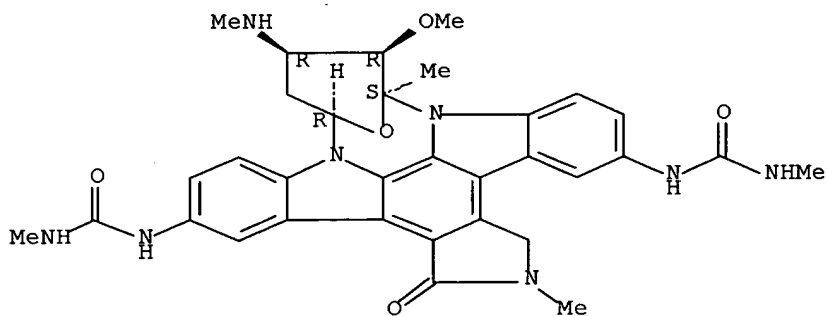




● 3 HCl

RN 172350-53-7 CAPLUS  
 CN Urea, N,N'-[2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl]bis[N'-methyl-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]]- (9CI)  
 (CA INDEX NAME)

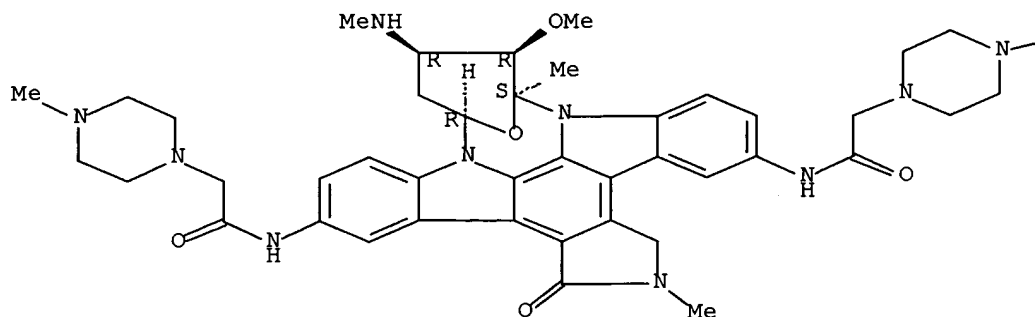
Absolute stereochemistry.



● HCl

RN 172350-54-8 CAPLUS  
 CN 1-Piperazineacetamide, N,N'-[2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl]bis[4-methyl-1-piperazineacetamide, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]]- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.

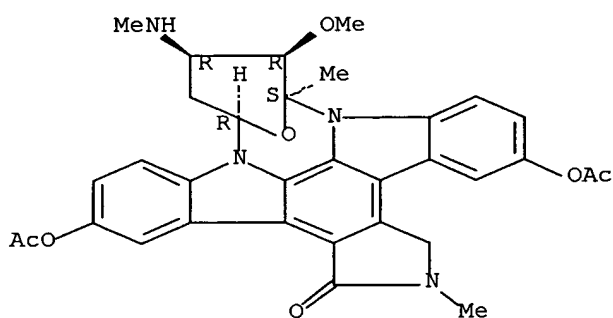


● 5 HCl

— Me

RN 172350-55-9 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-1-one, 5,17-bis(acetyloxy)-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

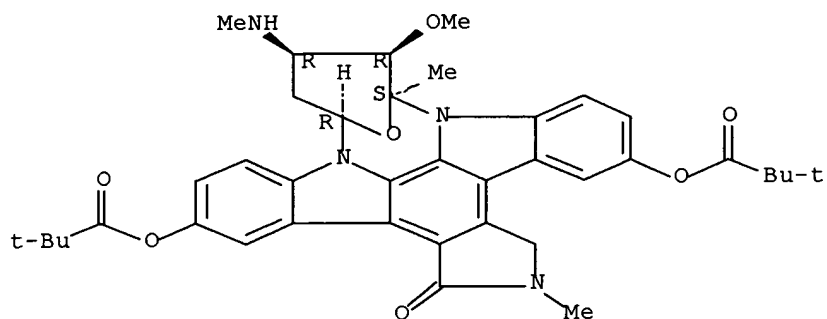
Absolute stereochemistry.



● HCl

RN 172350-56-0 CAPLUS  
 CN Propanoic acid, 2,2-dimethyl-, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl ester, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.

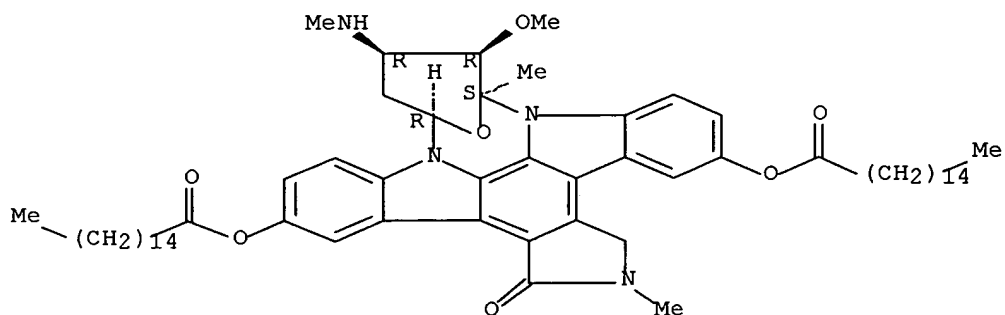


● HCl

RN 172350-57-1 CAPLUS

CN Hexadecanoic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl ester, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

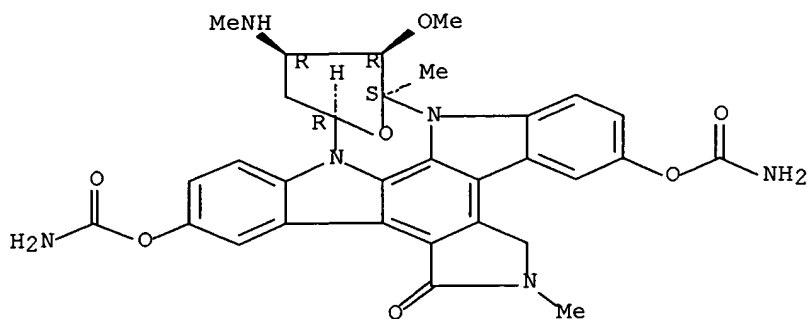


● HCl

RN 172350-58-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(aminocarbonyl)oxy]-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

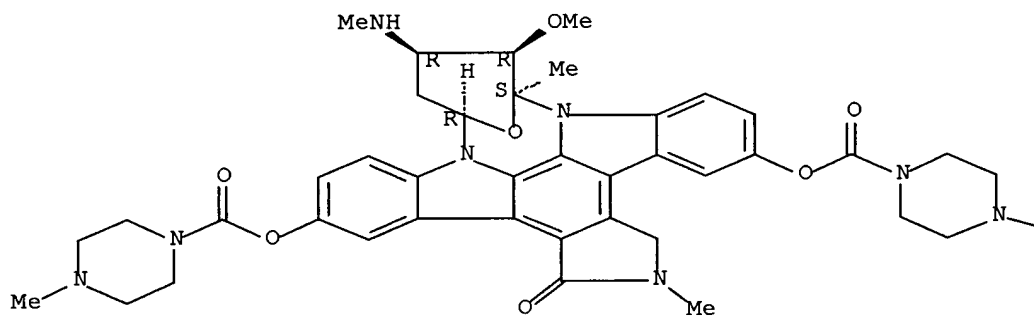
RN 172350-59-3 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-methyl-, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl

ester, trihydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



●3 HCl

PAGE 1-B

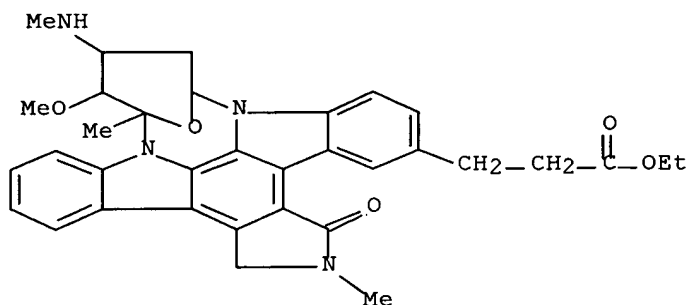
— Me

RN 172350-61-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-propanoic acid, 2,3,10,11,12,13-hexahydro-12-methoxy-2,13-dimethyl-11-(methylamino)-3-oxo-, ethyl ester, [9R-(9.alpha.,11.beta.,12.beta.,13.alpha.)]-, monoacetate (9CI) (CA

INDEX  
 NAME)

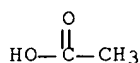
CM 1

CRN 172350-60-6  
 CMF C34 H36 N4 O5



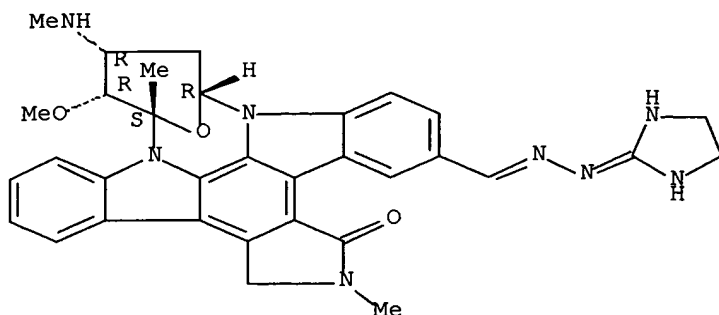
CM 2

CRN 64-19-7  
 CMF C2 H4 O2



RN 172350-62-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxaldehyde, 2,3,10,11,12,13-hexahydro-12-methoxy-2,13-dimethyl-11-(methylamino)-3-oxo-, 5-[(4,5-dihydro-1H-imidazol-2-yl)hydrazone], trihydrochloride, [9R-(9.alpha.,11.beta.,12.beta.,13.alpha.a.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



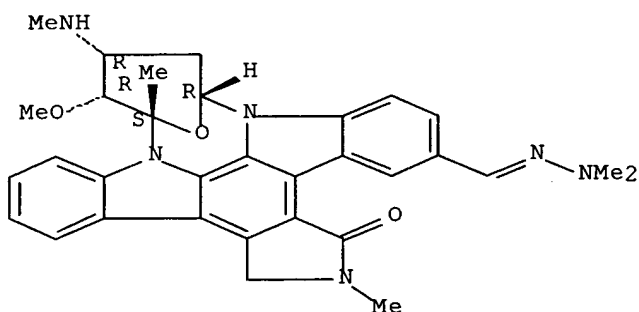
● 3 HCl

RN 172350-63-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxaldehyde, 2,3,10,11,12,13-hexahydro-12-methoxy-2,13-dimethyl-11-(methylamino)-3-oxo-, 5-(dimethylhydrazone), [9R-(9.alpha.,11.beta.,12.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

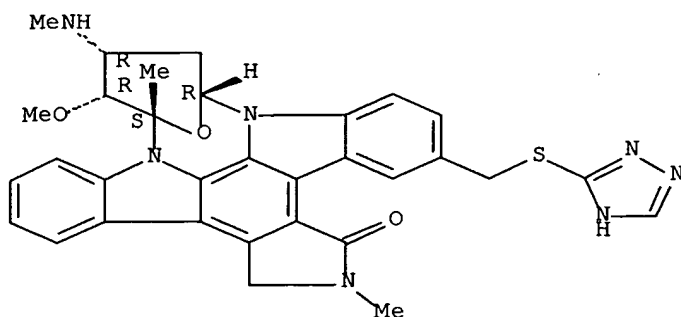
Double bond geometry unknown.



RN 172350-64-0 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-17-[(1H-1,2,4-triazol-3-ylthio)methyl]-, dihydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

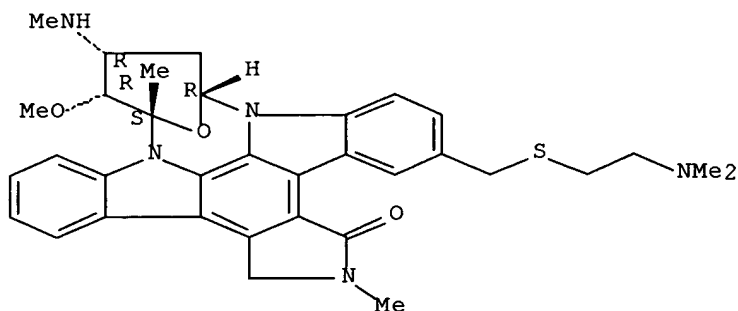


●2 HCl

RN 172350-65-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[[[2-(dimethylamino)ethyl]thio]methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

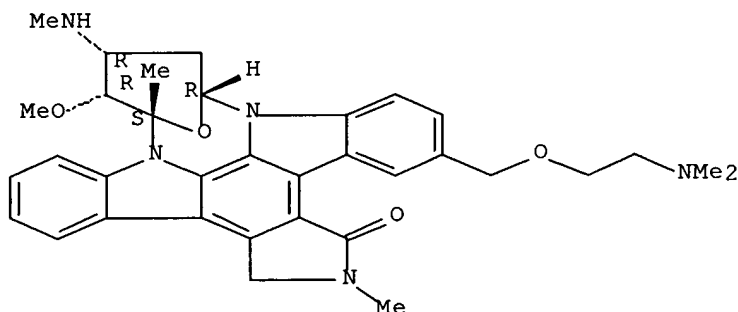
Absolute stereochemistry.



RN 172350-66-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[[[2-(dimethylamino)ethoxy]methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

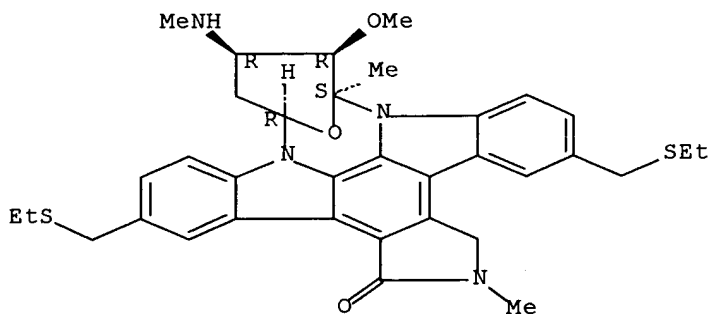
Absolute stereochemistry.



RN 172350-67-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis[(ethylthio)methyl]-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

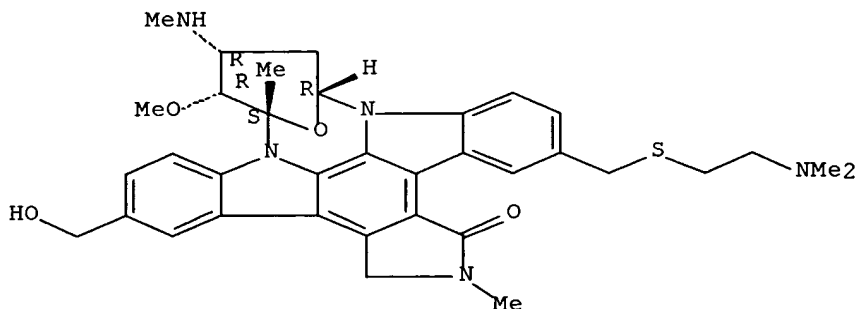
Absolute stereochemistry.



RN 172350-68-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-[[[2-(dimethylamino)ethyl]thio]methyl]-2,3,10,11,12,13-hexahydro-5-(hydroxymethyl)-10-methoxy-2,9-dimethyl-11-(methylamino)-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

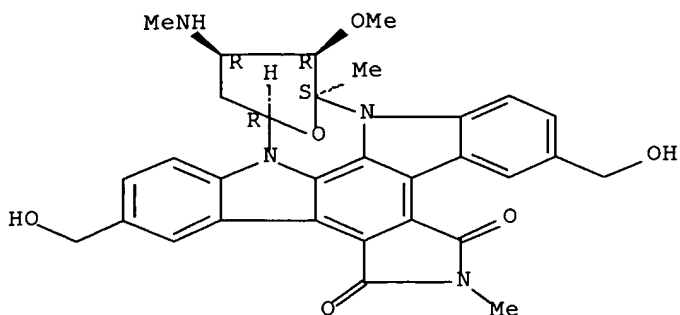


RN 172350-69-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-1,3(2H)-dione, 10,11,12,13-tetrahydro-5,17-bis(hydroxymethyl)-10-methoxy-2,9-dimethyl-11-(methylamino)-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

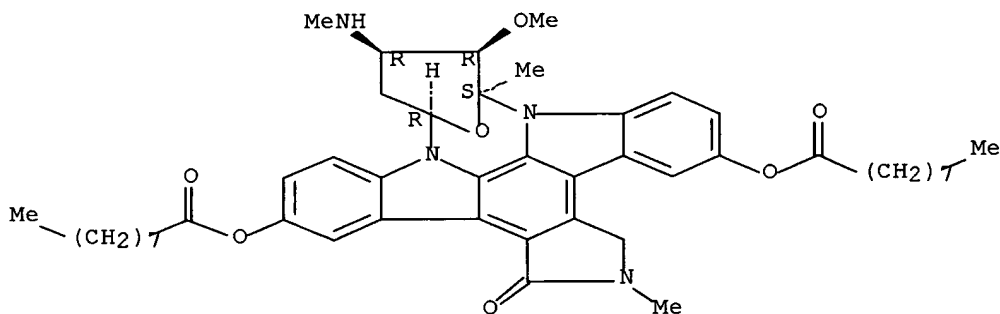




RN 172350-70-8 CAPLUS

CN Nonanoic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl ester, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



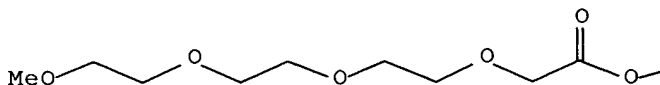
● HCl

RN 172350-71-9 CAPLUS

CN 2,5,8,11-Tetraoxatridecan-13-oic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

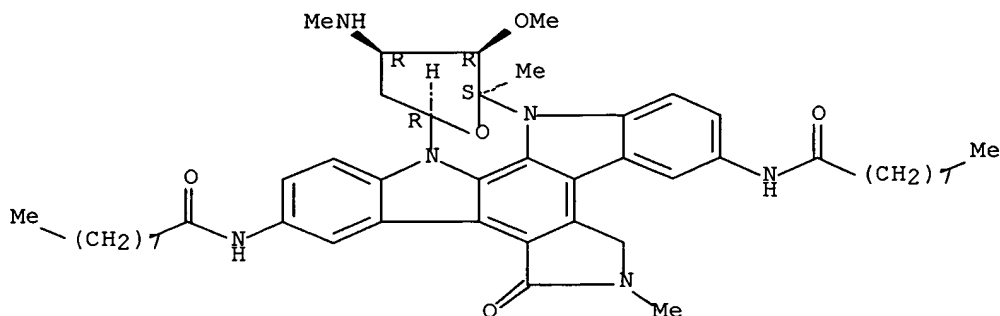


CCOC

CN Hexadecanamide, N,N'-[2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-  
11-  
(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-  
lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl]bis-, monohydrochloride,  
[9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

CN Nonanamide, N,N'-[2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl]bis-, monohydrochloride,

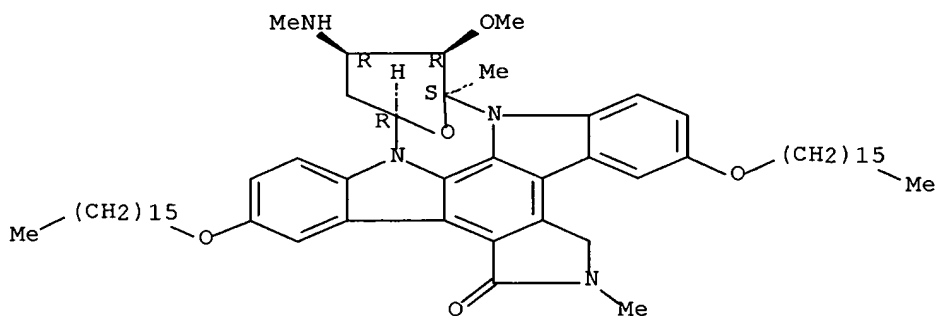
Absolute stereochemistry.



● HCl

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-bis(hexadecyloxy)-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

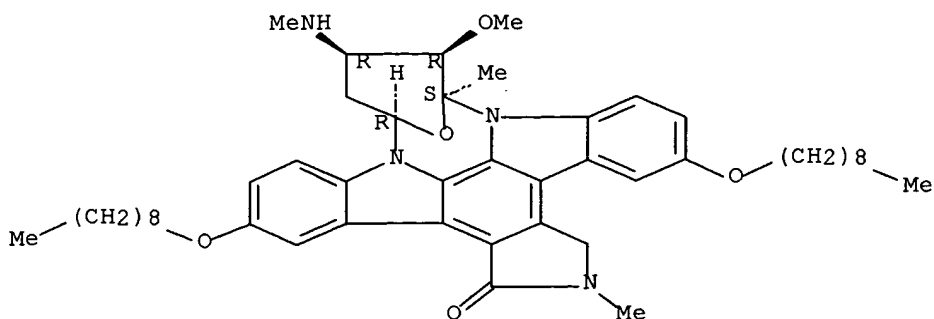
Absolute stereochemistry.



● HCl

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-5,17-bis(nonyloxy)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

IT 159293-59-1P 159293-70-6P 159293-71-7P  
 172350-82-2P 172350-83-3P 172350-84-4P  
 172350-85-5P 172350-86-6P 172350-87-7P  
 172350-88-8P 172350-89-9P 172350-90-2P  
 172350-91-3P 172350-92-4P 172350-93-5P  
 172350-94-6P 172350-95-7P 172350-96-8P  
 172350-97-9P 172350-98-0P 172350-99-1P  
 172351-00-7P 172351-01-8P 172351-02-9P  
 172351-03-0P 172351-04-1P 172351-05-2P  
 172351-06-3P 172351-07-4P 172351-08-5P  
 172351-09-6P 172351-10-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

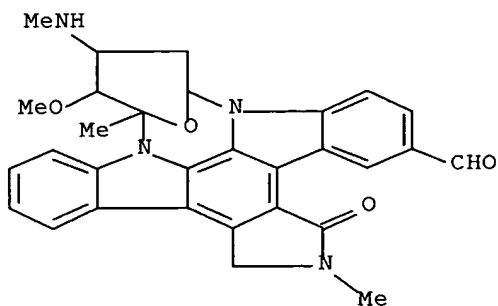
RACT

(Reactant or reagent)

(prepn. of indolocarbazole derivs. for treatment of  
 thrombocytopenia.)

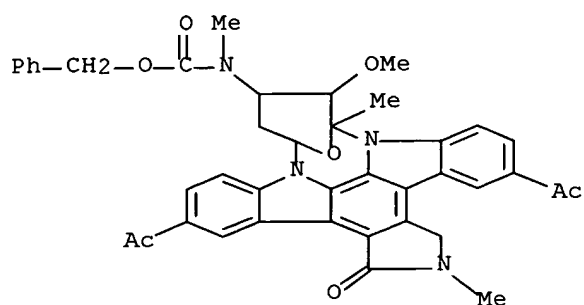
RN 159293-59-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonine-5-carboxaldehyde, 2,3,10,11,12,13-hexahydro-12-  
 methoxy-2,13-dimethyl-11-(methylamino)-3-oxo- (9CI) (CA INDEX NAME)



RN 159293-70-6 CAPLUS

CN Carbamic acid, (5,17-diacetyl-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-  
 dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-  
 lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX  
 NAME)

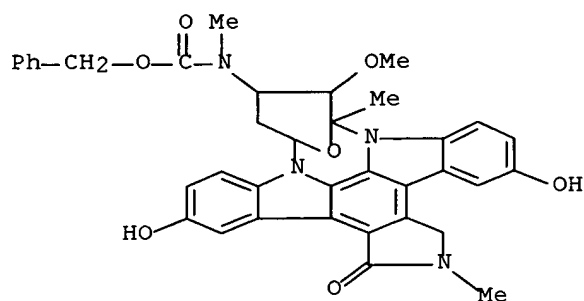


RN 159293-71-7 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-

lm]pyrrolo[3,4-

j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

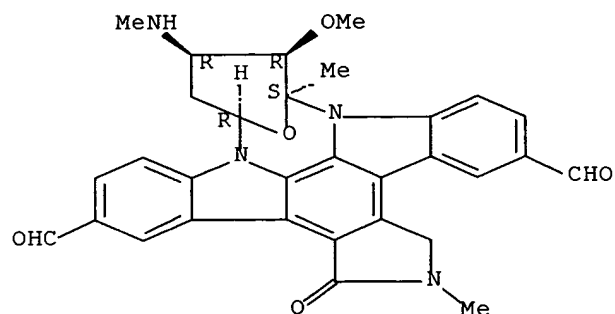


RN 172350-82-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxaldehyde, 2,3,10,11,12,13-hexahydro-10-

methoxy-2,9-dimethyl-11-(methylamino)-1-oxo-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

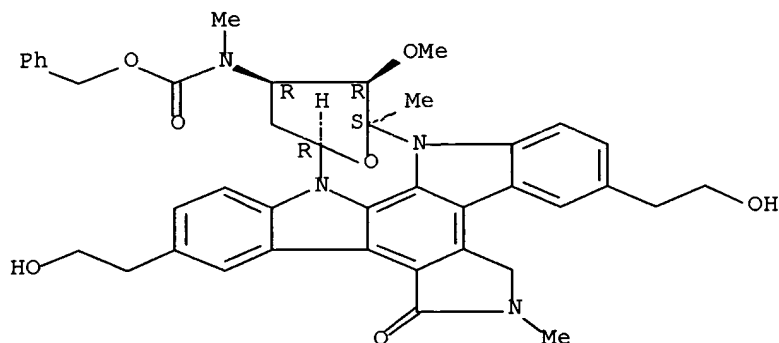
Absolute stereochemistry.



RN 172350-83-3 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-5,17-bis(2-hydroxyethyl)-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

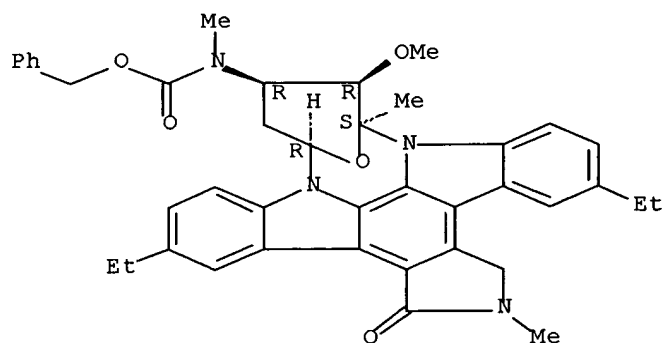
Absolute stereochemistry.



RN 172350-84-4 CAPLUS

CN Carbamic acid, (5,17-diethyl-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

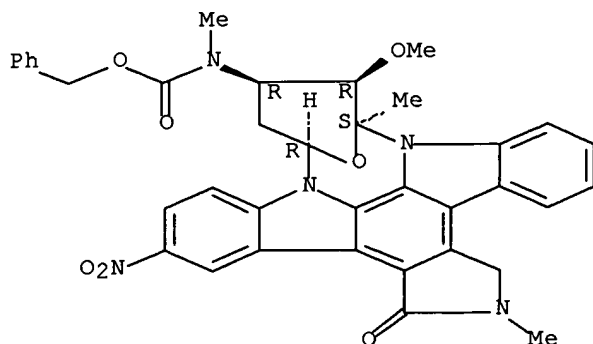
Absolute stereochemistry.



RN 172350-85-5 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-17-nitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

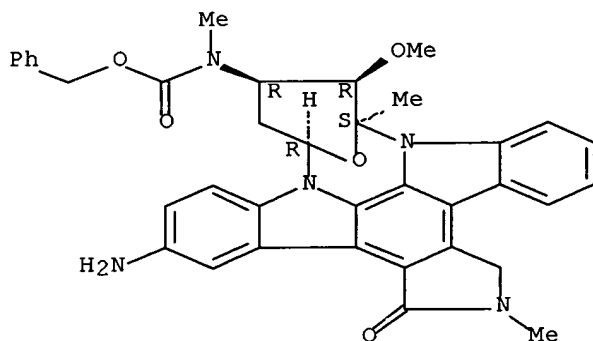
Absolute stereochemistry.



RN 172350-86-6 CAPLUS

CN Carbamic acid, (17-amino-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

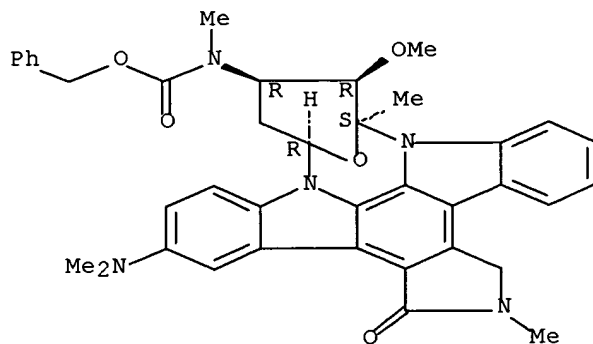
Absolute stereochemistry.



RN 172350-87-7 CAPLUS

CN Carbamic acid, [17-(dimethylamino)-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

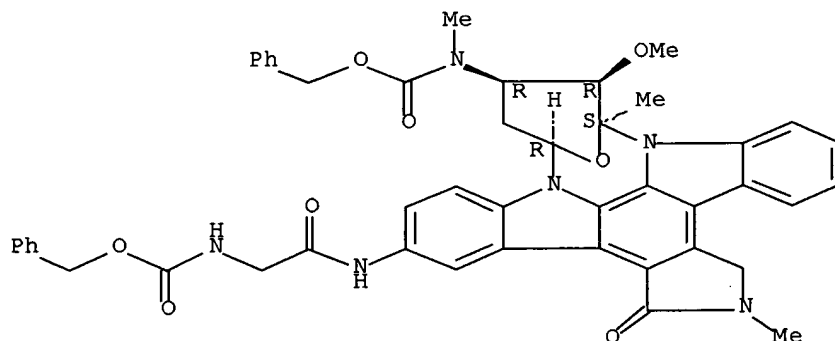


RN 172350-88-8 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-17-

[[[(phenylmethoxy)carbonyl]amino]acetyl]amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

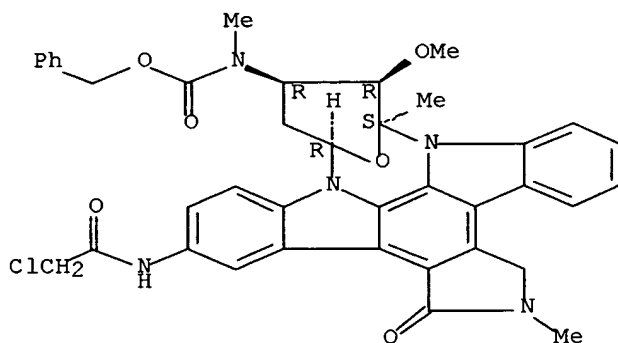
Absolute stereochemistry.



RN 172350-89-9 CAPLUS

CN Carbamic acid, [17-[(chloroacetyl)amino]-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

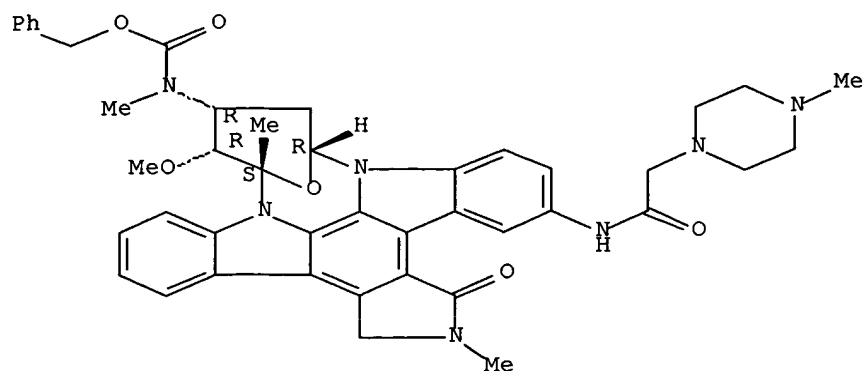


RN 172350-90-2 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-17-[[[4-methyl-1-piperazinyl]acetyl]amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



Absolute stereochemistry.



RN 172350-91-3 CAPLUS

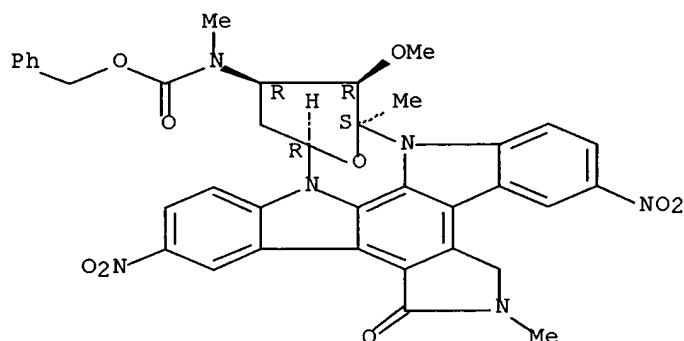
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-5,17-dinitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-g:3',2',1'-

lm]pyrrolo[3,4-

j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester,

[9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 172350-92-4 CAPLUS

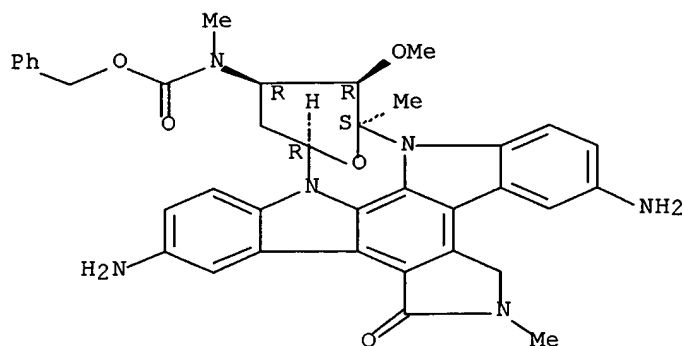
CN Carbamic acid, (5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-g:3',2',1'-

lm]pyrrolo[3,4-

j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester,

[9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

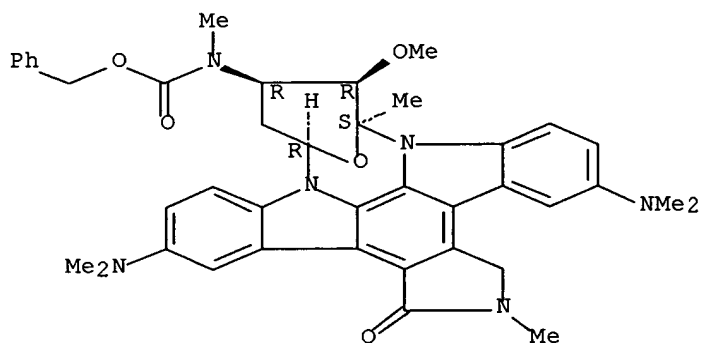
Absolute stereochemistry.



RN 172350-93-5 CAPLUS

CN Carbamic acid, [5,17-bis(dimethylamino)-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

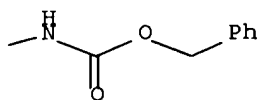
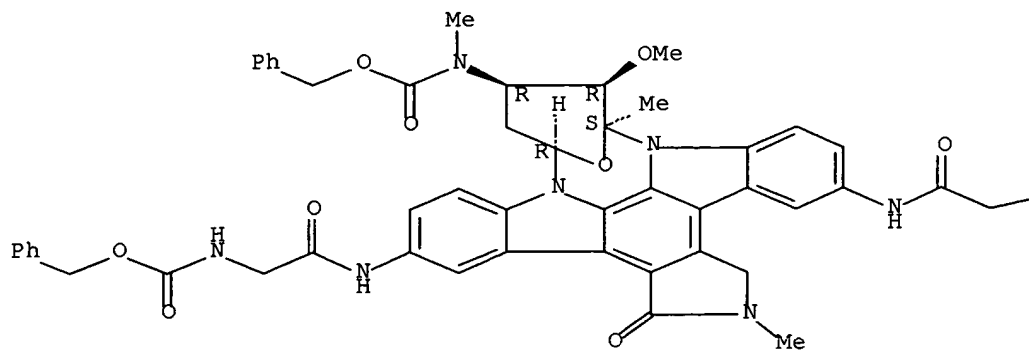
Absolute stereochemistry.



RN 172350-94-6 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-5,17-bis[(((phenylmethoxy)carbonyl)amino)acetyl]amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,112,13.alpha.)]- (9CI) (CA INDEX NAME)

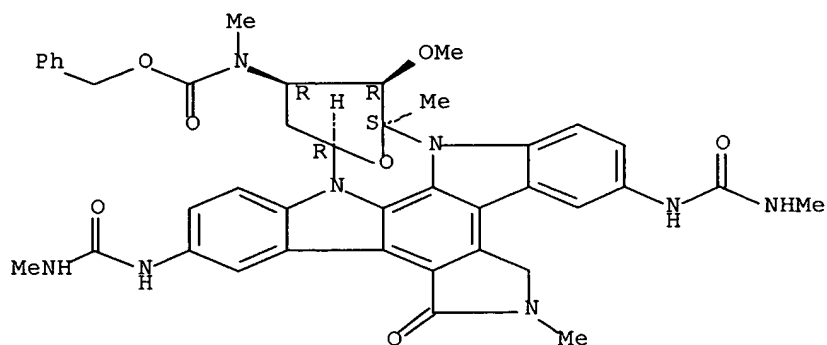
Absolute stereochemistry.



RN 172350-95-7 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-5,17-bis[[ (methylamino) carbonyl] amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

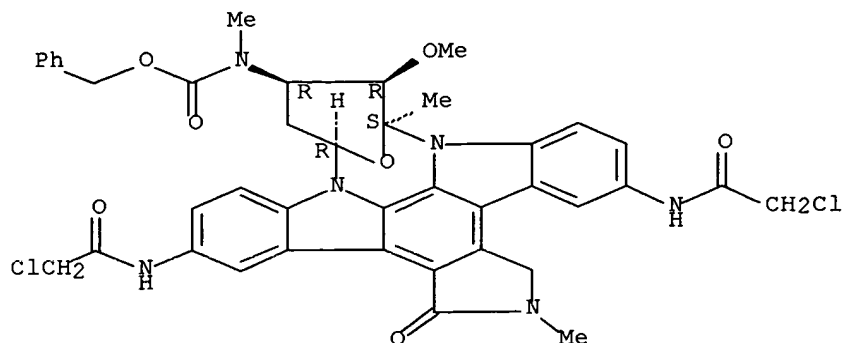


RN 172350-96-8 CAPLUS

CN Carbamic acid, [5,17-bis[(chloroacetyl) amino]-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]methyl-, phenylmethyl ester,  
10-

[9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

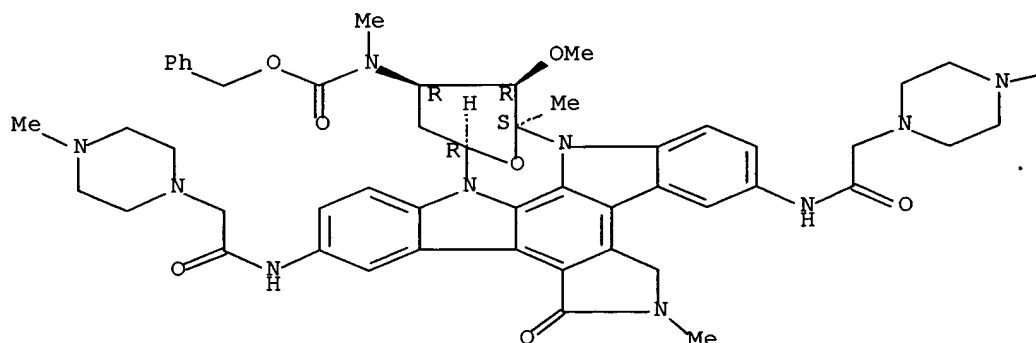


RN 172350-97-9 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-5,17-bis[[ (4-methyl-1-piperazinyl) acetyl] amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



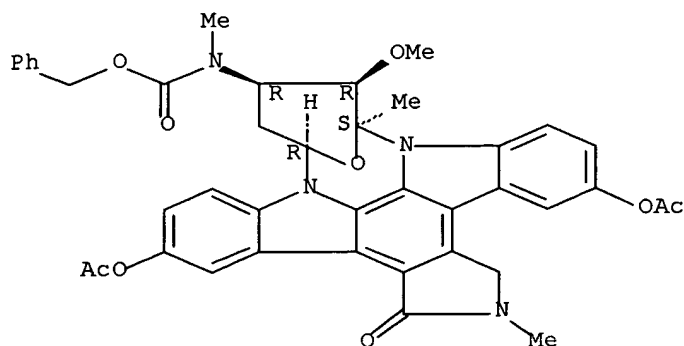
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—Me

RN 172350-98-0 CAPLUS

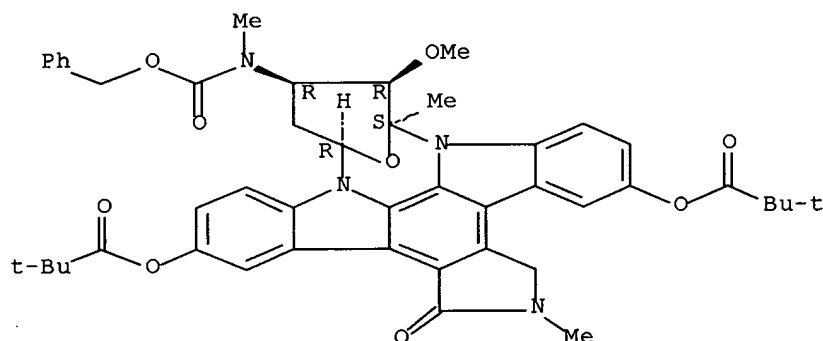
CN Carbamic acid, [5,17-bis(acetyloxy)-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



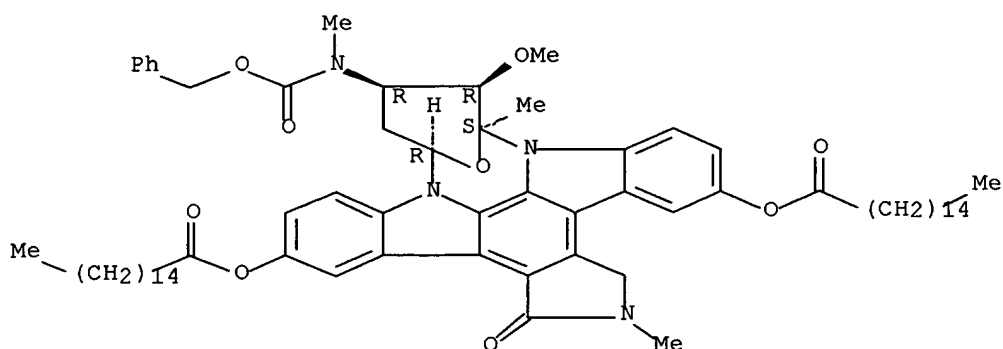
RN 172350-99-1 CAPLUS  
 CN Propanoic acid, 2,2-dimethyl-, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-[methyl[(phenylmethoxy) carbonyl] amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 172351-00-7 CAPLUS  
 CN Hexadecanoic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-[methyl[(phenylmethoxy) carbonyl] amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

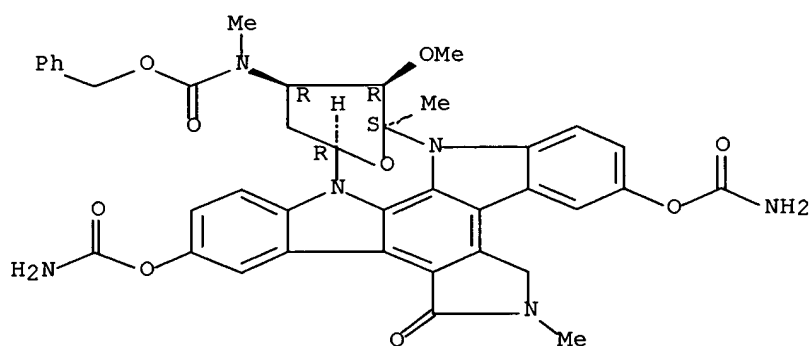
Absolute stereochemistry.



RN 172351-01-8 CAPLUS

CN Carbamic acid, [5,17-bis[(aminocarbonyl)oxy]-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-11-yl]methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

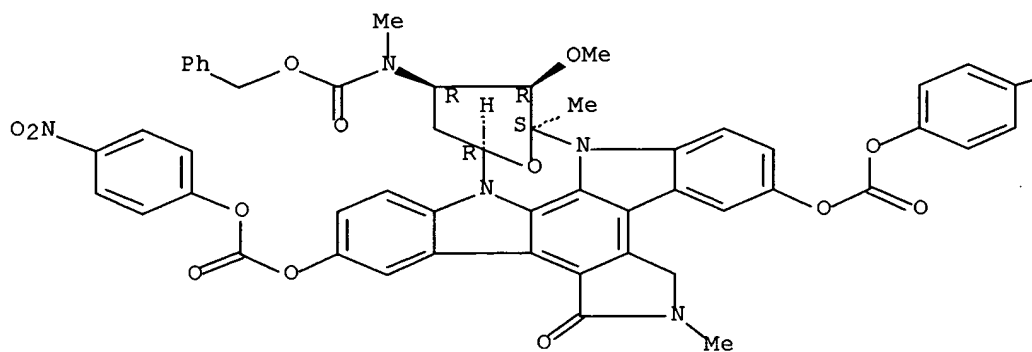
Absolute stereochemistry.



RN 172351-02-9 CAPLUS

CN Carbonic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-[methyl[(phenylmethoxy)carbonyl]amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl bis(4-nitrophenyl) ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

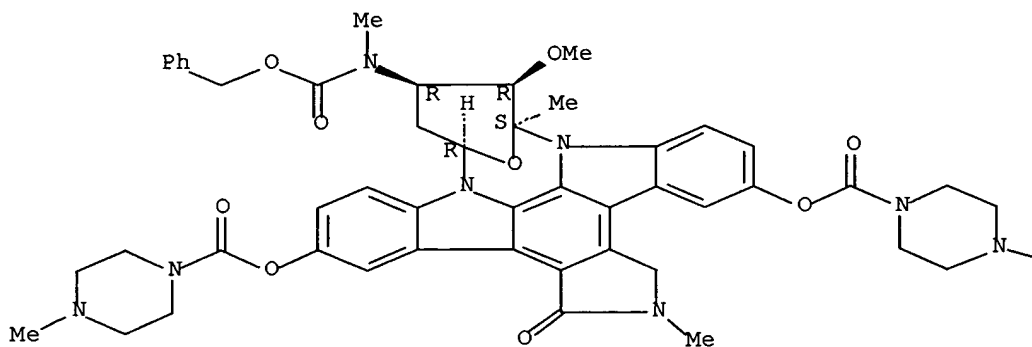
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RN      172351-03-0  CAPLUS
CN      1-Piperazinecarboxylic acid, 4-methyl-, 2,3,10,11,12,13-hexahydro-10-
methoxy-2,9-dimethyl-11-[methyl[(phenylmethoxy)carbonyl]amino]-1-oxo-
9,13-
epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-
j][1,7]benzodiazonine-5,17-diyl ester, [9S-
(9.alpha.,10.beta.,11.beta.,13.
alpha.)]- (9CI)  (CA INDEX NAME)

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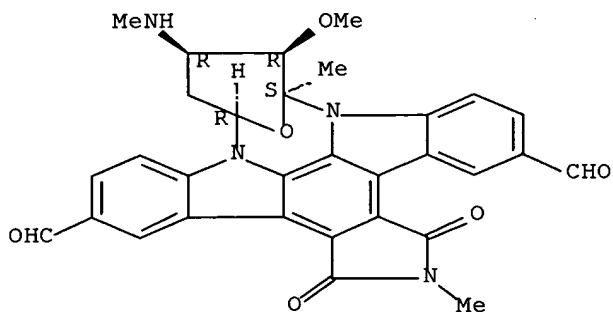
Absolute stereochemistry.



—Me

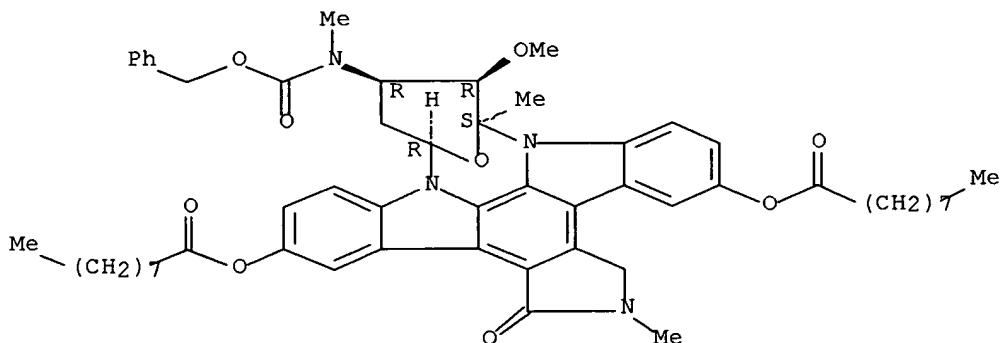
RN 172351-04-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxaldehyde, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)-1,3-dioxo-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 172351-05-2 CAPLUS  
 CN Nonanoic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-[methyl[(phenylmethoxy)carbonyl]amino]-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





RN 172351-06-3 CAPLUS

CN 2,5,8,11-Tetraoxatridecan-13-oic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-[methyl[(phenylmethoxy) carbonyl] amino]-1-oxo-9,13-

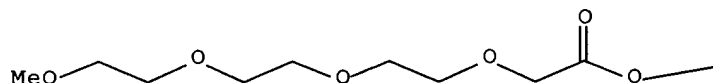
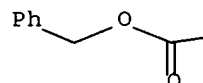
epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-diyl ester, [9S-

(9.alpha.,10.beta.,11.beta.,13.

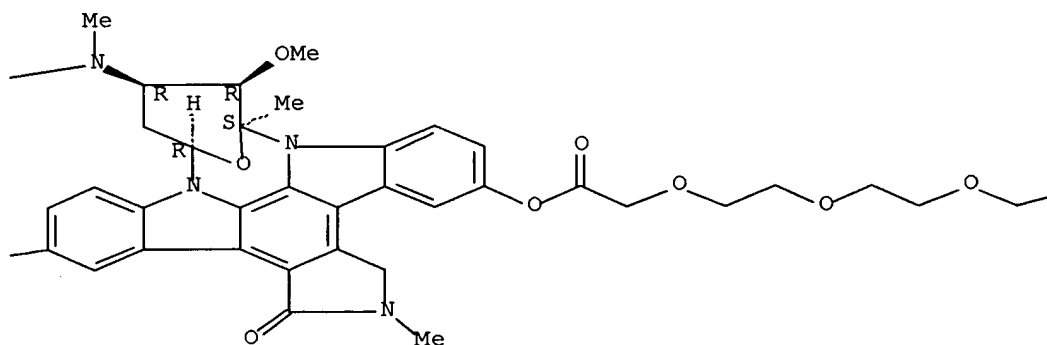
alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

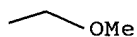
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PAGE 1-B



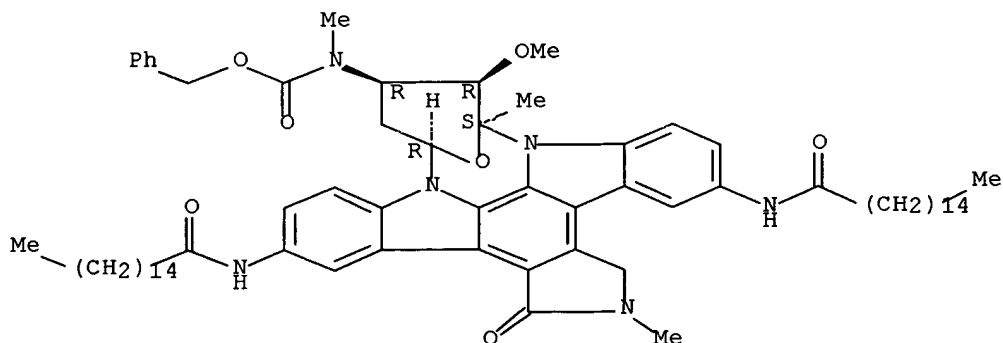
PAGE 1-C



RN 172351-07-4 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-5,17-bis[(1-oxohexadecyl)amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

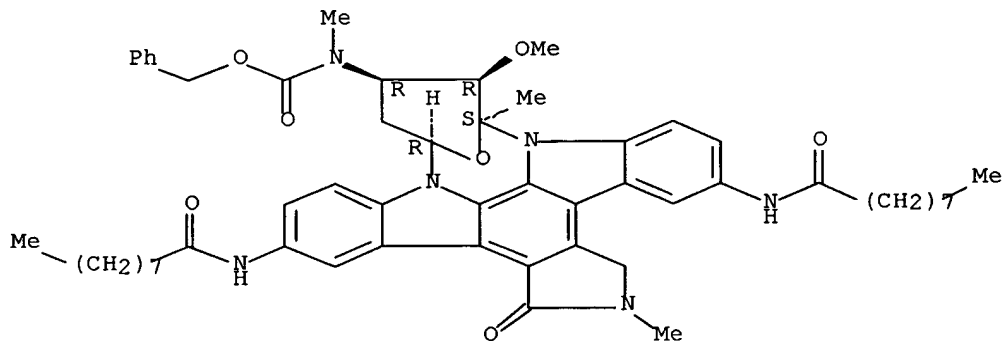
Absolute stereochemistry.



RN 172351-08-5 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-5,17-bis[(1-oxononyl)amino]-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

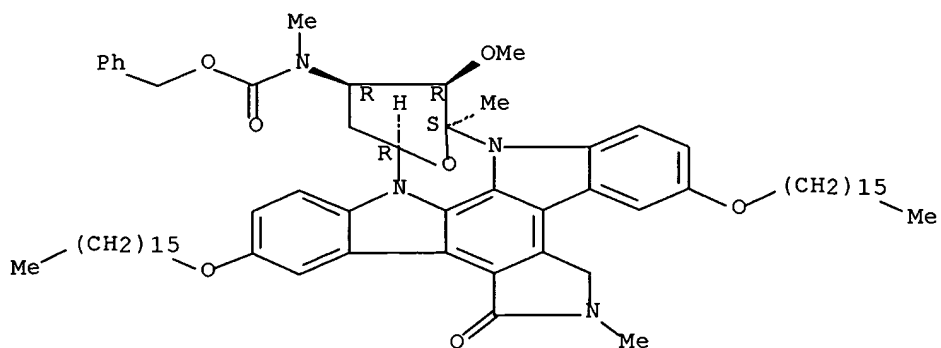
Absolute stereochemistry.



RN 172351-09-6 CAPLUS

CN Carbamic acid, [5,17-bis(hexadecyloxy)-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

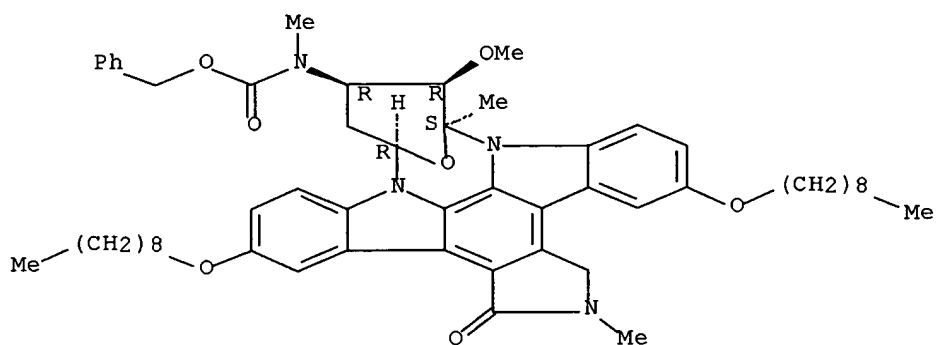
Absolute stereochemistry.



RN 172351-10-9 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-5,17-bis(nonyloxy)-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl]methyl-, phenylmethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

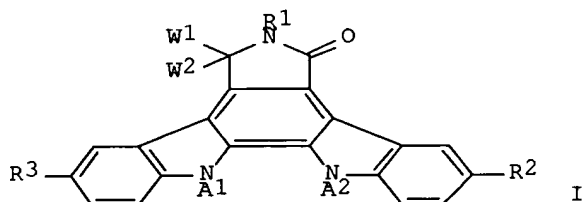
Absolute stereochemistry.



in IDS

L8 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1995:216587 CAPLUS  
 DN 122:10020  
 TI preparation of benzodiindole derivatives as antithrombotics  
 IN Tamaoki, Tatsuya; Shiotsu, Yukimasa; Murakata, Chikara; Akinaga, Shiro;  
 Okabe, Masami; Saitoh, Yutaka; Watanabe, Junichi; Shiraki, Takako  
 PA Kyowa Hakko Kogyo Co., Ltd., Japan  
 SO PCT Int. Appl., 65 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | WO 9406799   | A1   | 19940331 | WO 1993-JP1346  | 19930920 |
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|      | EP 630898  | A1   | 19941228 | EP 1993-919687  | 19930920 |
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|      | WO 1993-JP1346   | W    | 19930920 |                 |          |
| OS   | MARPAT 122:10020   |      |          |                 |          |
| GI   |  |      |          |                 |          |



AB Title compds. I [R1 = H, alkyl, alkanoyl, benzyl, amino; R2 = H, OH, alkoxy, alkanoyl, halo, etc.; R3 = H, alkanoyl, halo, OH, alkoxy; W1, W2 = H, OH, alkylthio, etc.; A1, A2 = H, or together = 4-(methylamino)-2-methyl-3-methoxytetrahydro-2,6-pyrandiyl, etc.] are prepd. and their blood platelet aggregation inhibiting activities were evaluated. E.g., I [R1-R3 = H, W1 = H, W2 = OH, A1A2 = Q] at 1 nM showed 127% inhibition of blood platelet aggregation compared with 100% for the control.

IT 159293-48-8P 159293-49-9P 159293-50-2P  
 159293-51-3P 159293-52-4P 159293-56-8P  
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological

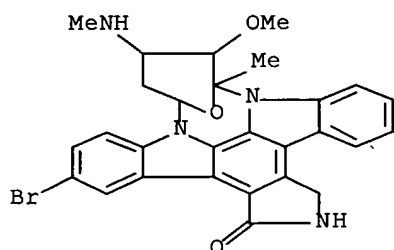
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of, as antithrombotic)

RN 159293-48-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-bromo-2,3,10,11,12,13-hexahydro-10-methoxy-

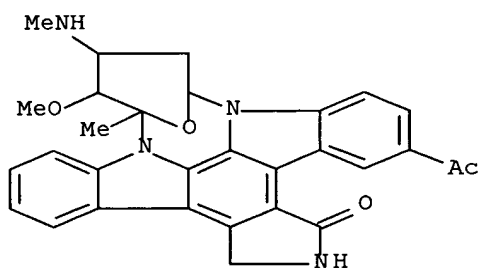
9-methyl-11-(methylamino)- (9CI) (CA INDEX NAME)



RN 159293-49-9 CAPLUS

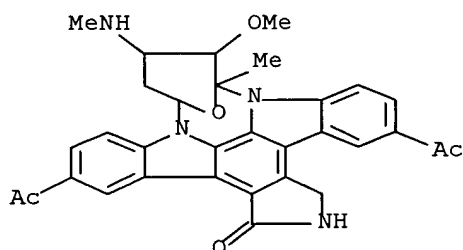
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-acetyl-2,3,10,11,12,13-hexahydro-10-methoxy-

9-methyl-11-(methylamino)- (9CI) (CA INDEX NAME)

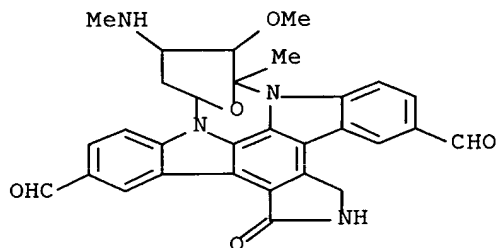


RN 159293-50-2 CAPLUS

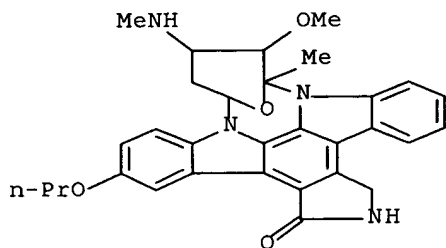
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diacetyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)- (9CI) (CA INDEX NAME)



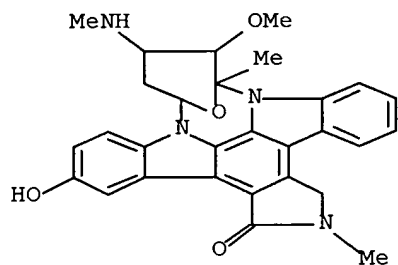
RN 159293-51-3 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxaldehyde, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo- (9CI) (CA INDEX NAME)



RN 159293-52-4 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-17-propoxy- (9CI) (CA INDEX NAME)



RN 159293-56-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-2,9-dimethyl-11-(methylamino)-, monohydrochloride (9CI) (CA INDEX NAME)

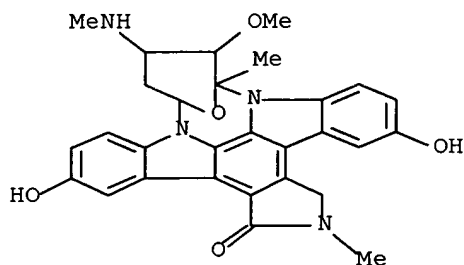


HCl

RN 159293-57-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-2,9-dimethyl-11-(methylamino)-, monohydrochloride (9CI) (CA

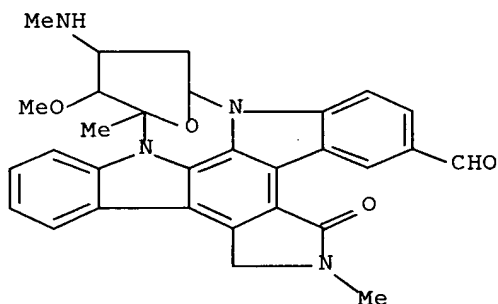
INDEX  
NAME)



● HCl

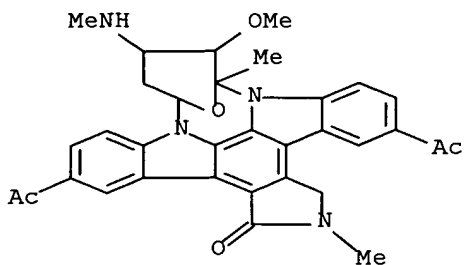
RN 159293-59-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxaldehyde, 2,3,10,11,12,13-hexahydro-12-methoxy-2,13-dimethyl-11-(methylamino)-3-oxo- (9CI) (CA INDEX NAME)

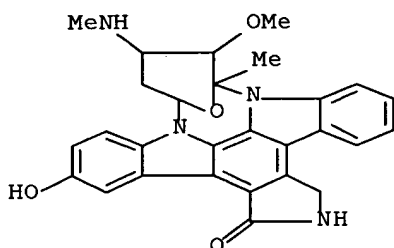


RN 159293-60-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diacetyl-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)- (9CI) (CA INDEX NAME)



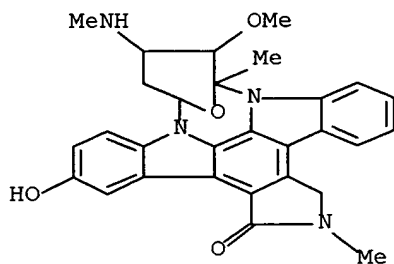
RN 159293-61-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-9-methyl-11-(methylamino)- (9CI) (CA INDEX NAME)



IT 159293-56-8P 159293-57-9P 159293-60-4P  
 159293-64-8P 159293-65-9P 159293-67-1P  
 159293-68-2P 159293-69-3P 159293-70-6P  
 159293-71-7P 159293-72-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of, as intermediate for antithrombotics)

RN 159293-56-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-2,9-dimethyl-11-(methylamino)-, monohydrochloride (9CI) (CA INDEX NAME)



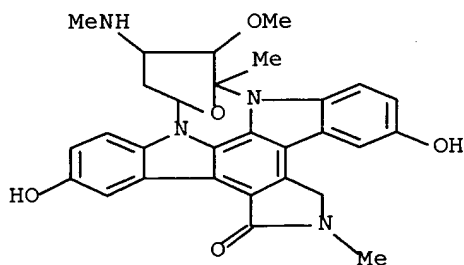
HCl



RN 159293-57-9 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-2,9-dimethyl-11-(methylamino)-, monohydrochloride (9CI) (CA

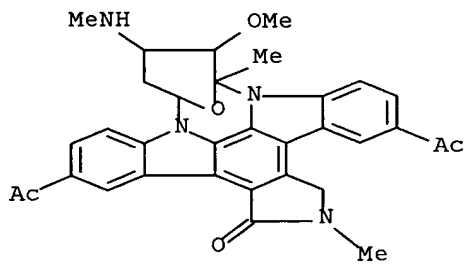
INDEX  
NAME)



● HCl

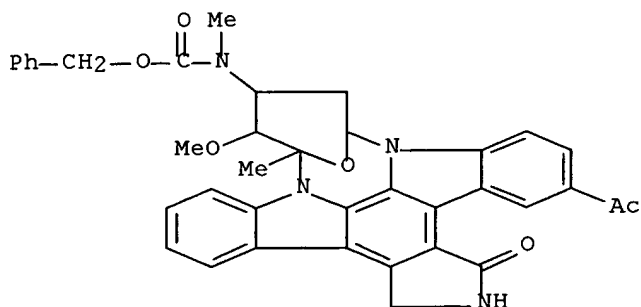
RN 159293-60-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diacetyl-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-11-(methylamino)- (9CI) (CA INDEX NAME)



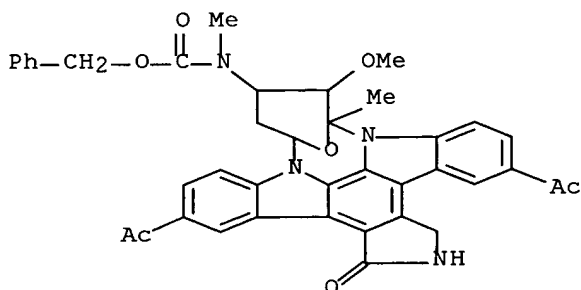
RN 159293-64-8 CAPLUS

CN Carbamic acid, (17-acetyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)



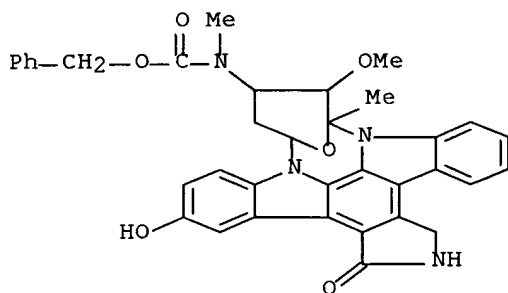
RN 159293-65-9 CAPLUS

CN Carbamic acid, (5,17-diacetyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 159293-67-1 CAPLUS

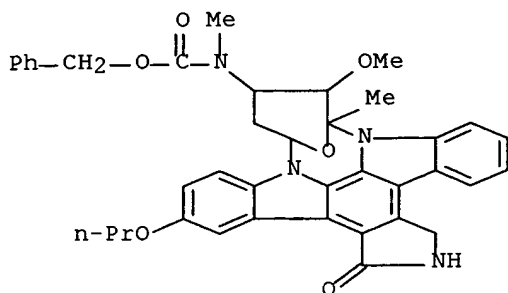
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 159293-68-2 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-17-propoxy-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

NAME)

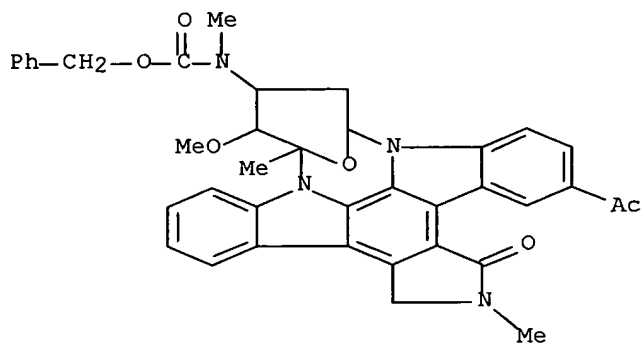


RN 159293-69-3 CAPLUS

CN Carbamic acid, (17-acetyl-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-

lm]pyrrolo[3,4-

j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

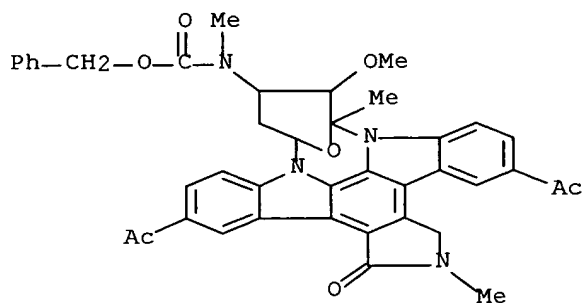


RN 159293-70-6 CAPLUS

CN Carbamic acid, (5,17-diacetyl-2,3,10,11,12,13-hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-

lm]pyrrolo[3,4-

j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

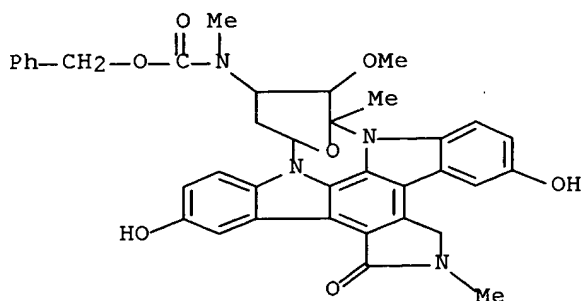


RN 159293-71-7 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-

lm]pyrrolo[3,4-

j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

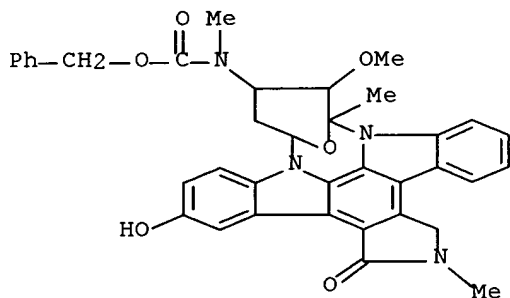


RN 159293-72-8 CAPLUS

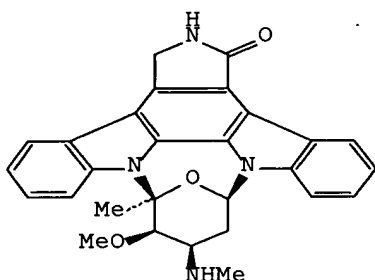
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-2,9-dimethyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-

lm]pyrrolo[3,4-

j][1,7]benzodiazonin-11-yl)methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

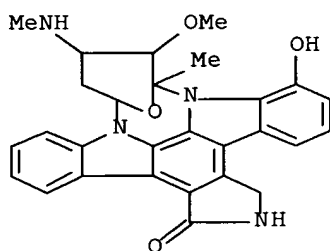


L8 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1994:323976 CAPLUS  
 DN 120:323976  
 TI Absolute configuration of staurosporine by x-ray analysis  
 AU Funato, Nobuyuki; Takayanagi, Hiroaki; Konda, Yaeko; Toda, Yumiko;  
 Harigaya, Yoshihiro; Iwai, Yuzuru; Omura, Satoshi  
 CS Sch. Pharm. Sci., Kitasato Univ., Japan  
 SO Tetrahedron Letters (1994), 35(8), 1251-4  
 CODEN: TELEAY; ISSN: 0040-4039  
 DT Journal  
 LA English  
 GI



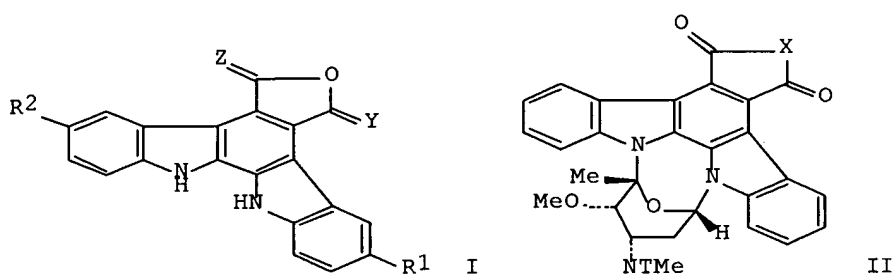
I

AB The stereostructure of staurosporine (I) was detd. abs. to be  
 2'S,3'R,4'R,6'R-configurations by means of x-ray crystallog. anal. of  
 4'-N-methylstaurosporine methiodide.  
 IT **143682-17-1**, 11-Hydroxystaurosporine  
 RL: PRP (Properties)  
 (abs. configuration of)  
 RN 143682-17-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7-hydroxy-10-  
 methoxy-  
 9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)



L8 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1994:31003 CAPLUS  
 DN 120:31003  
 TI Preparation of indolocarbazole derivatives as antitumor agents  
 IN Yamada, Rintaro; Hayashi, Yoshiharu  
 PA Asahi Chemical Ind, Japan  
 SO Jpn. Kokai Tokkyo Koho, 19 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.       | KIND | DATE     | APPLICATION NO. | DATE     |
|------|------------------|------|----------|-----------------|----------|
| PI   | JP 05140168      | A2   | 19930608 | JP 1991-297072  | 19911113 |
| PRAI | JP 1991-297072   |      | 19911113 |                 |          |
| OS   | MARPAT 120:31003 |      |          |                 |          |
| GI   |                  |      |          |                 |          |



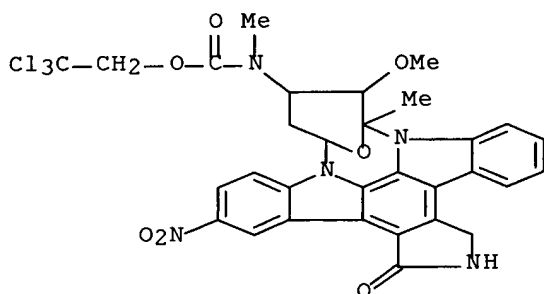
AB The title compds. I (C:z, C:Y = CH<sub>2</sub>, C:O; one of C:Z and C:Y must be other than CH<sub>2</sub>; R<sub>1</sub>, R<sub>2</sub> = H, nitro, OH, halo, etc.) were prepd. A mixt. of indolocarbazole deriv. II (X = NH; T = Cl<sub>3</sub>C CH<sub>2</sub>O<sub>2</sub>C) and aq. NH<sub>4</sub>OH in MeOH and dioxane was heated at 50.degree. for 3 h. The resulting mixt. was then treated with aq. NaOH at 10.degree. for 3.5 h to give II (X = O; T = Cl<sub>3</sub>CCH<sub>2</sub>O<sub>2</sub>C) (III). Treatment of III with a mixt. of CF<sub>3</sub>CO<sub>2</sub>H and HCl gave, after workup, I (Y = Z = O, R<sub>1</sub> = R<sub>2</sub> = H) (IV). IV at 10 mg/kg showed antitumor activity in mice.

IT **135384-27-9P 135384-29-1P 149166-82-5P**  
**149166-84-7P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);  
 RACT (Reactant or reagent) (prepn. and reaction of, in prepn. of  
 antitumor agent)

RN 135384-27-9 CAPLUS

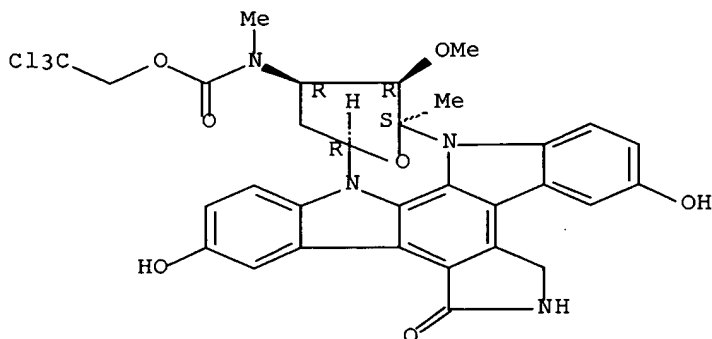
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-  
 1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester,  
 [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 135384-29-1 CAPLUS

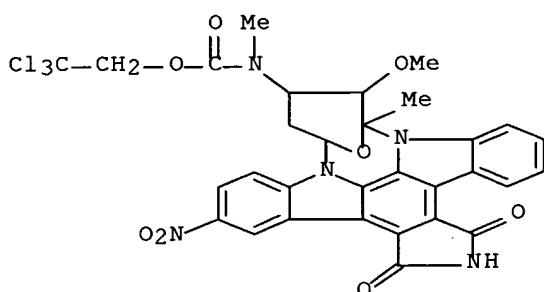
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



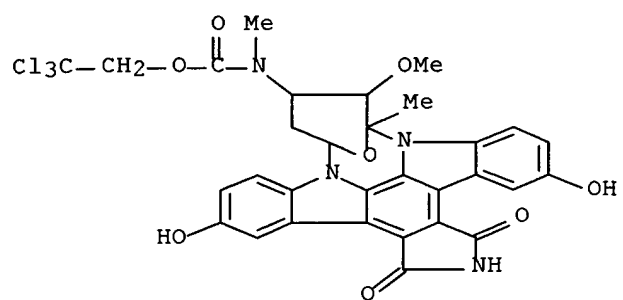
RN 149166-82-5 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



RN 149166-84-7 CAPLUS

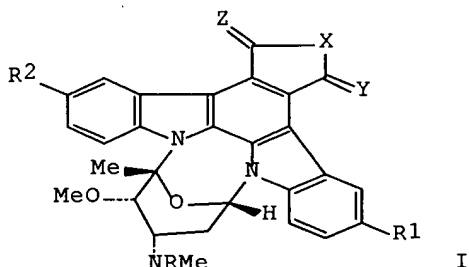
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)





L8 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1993:517031 CAPLUS  
 DN 119:117031  
 TI Preparation of staurosporine derivatives as blood platelet aggregation inhibitors  
 IN Yamada, Rintaro; Sato, Kazue; Omura, Satoshi; Harigai, Yoshihiro  
 PA Asahi Chemical Industry Co., Ltd., Japan; Kitasato Institute  
 SO Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.        | KIND | DATE     | APPLICATION NO. | DATE     |
|------|-------------------|------|----------|-----------------|----------|
| PI   | JP 04364186       | A2   | 19921216 | JP 1991-163325  | 19910610 |
| PRAI | JP 1991-163325    |      | 19910610 |                 |          |
| OS   | MARPAT 119:117031 |      |          |                 |          |
| GI   |                   |      |          |                 |          |



AB Staurosporine derivs. [I; R = H, protecting group; R1, R2 = H, NH2, OH, CH2OH; X = NH, O; Y, Z = 2 H, O, but Y = Z = 2H] are prepd. Protection of staurosporine with ClCO2CH2CCl3 in pyridine gave 82% protected staurosporine I (R = CO2CH2CCl3; R1 = R2 = H, X = NH, Y = O, Z = 2H), which was dissolved in 2,6-lutidine and heated with Ac2O at 140.degree. to give 85% N-Ac deriv. (X = NAc, others remain unchanged) (II). Nitration of II with fuming HNO3 and CF3SO3H in CH2Cl2 gave 91% nitro compd. I (R = CO2CH2CCl3, R1 = NO2, R2 = H, X = NAc, Y = O5, Z = 2 H), which was deacetylated with 85% N2H4, H2O in Me Cellosolve to give 78% I (X = NH, others remain unchanged) (III). Oxidn. of III with Mn(III) acetylacetonate and Me3COOH in Me3COH-1,4-dioxine gave 77% dione I (R = CO2CH2CCl3, R1 = NO2, R2 = H, X = NH, Y = Z = O), which was reduced with Zn/HCl in Me Cellosolve at 0.degree. to give 35% I (R1 = NH2, others remain unchanged) (IV). IV showed excellent inhibition against ADP-induced blood platelet aggregation at 5 .mu.M, vs. no effect with 100 .mu.M aspirin.

IT **135384-28-0P 135384-29-1P 135417-39-9P**  
**149166-82-5P 149166-83-6P 149166-84-7P**  
**149166-86-9P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

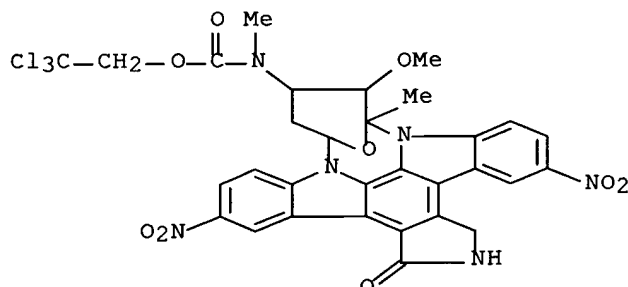
(Reactant or reagent)

(prepn. and reaction of, in prepn. of blood platelets aggregation inhibitor)

RN 135384-28-0 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5,17-dinitro-

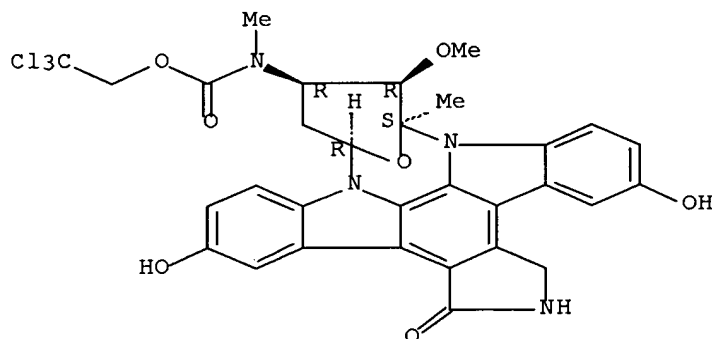
1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 135384-29-1 CAPLUS

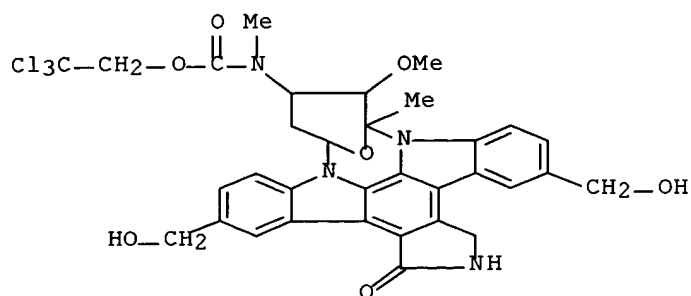
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



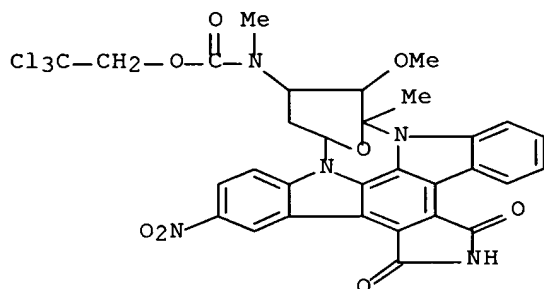
RN 135417-39-9 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



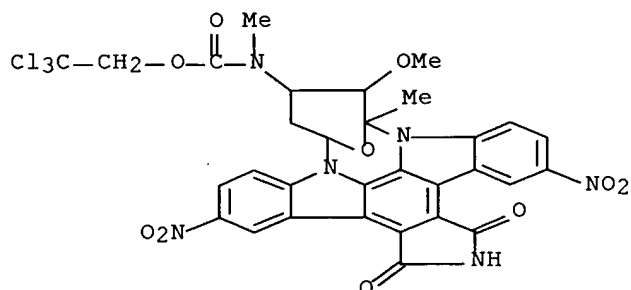
RN 149166-82-5 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



RN 149166-83-6 CAPLUS

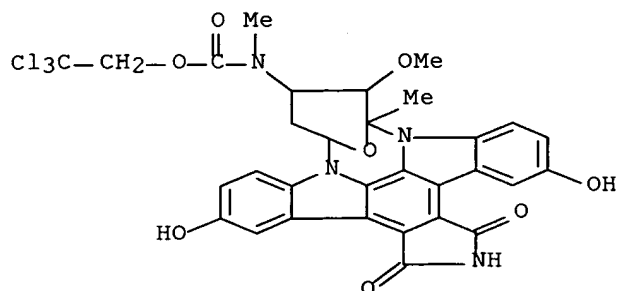
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5,17-dinitro-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



RN 149166-84-7 CAPLUS

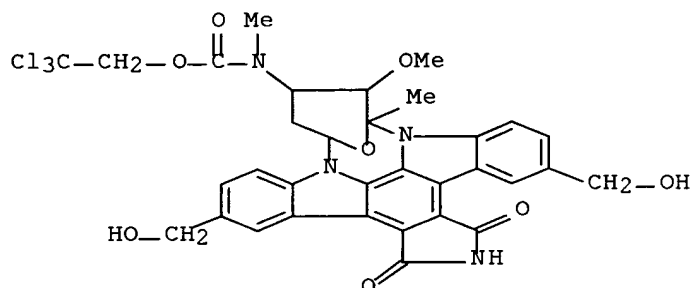
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-

lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



RN 149166-86-9 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)

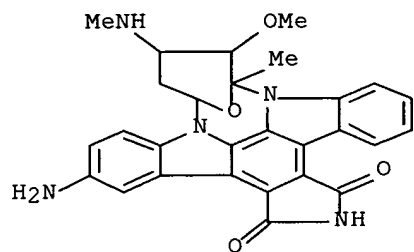


IT 149166-88-1P 149166-89-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, fast blood platelet aggregation inhibitor)

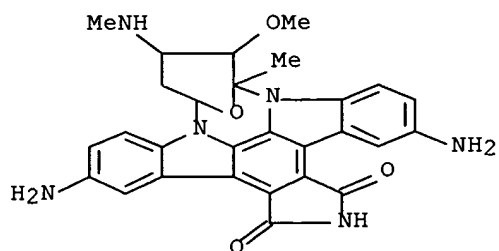
RN 149166-88-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-1,3(2H)-dione, 17-amino-10,11,12,13-tetrahydro-10-methoxy-9-methyl-11-(methylamino)-, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)

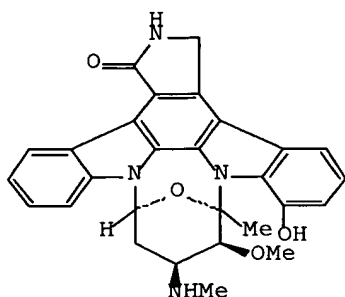


RN 149166-89-2 CAPLUS

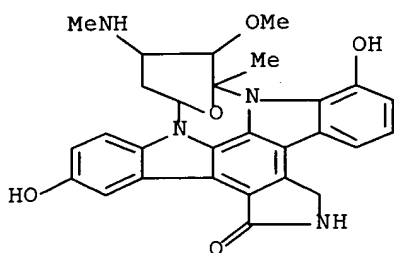
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-1,3(2H)-dione, 5,17-diamino-10,11,12,13-tetrahydro-10-methoxy-9-methyl-11-(methylamino)-, (9.alpha.,10.beta.,11.beta.,13.alpha.a.)- (9CI) (CA INDEX NAME)



L8 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1992:609157 CAPLUS  
 DN 117:209157  
 TI 11-Hydroxystaurosporine: a highly cytotoxic, powerful protein kinase C inhibitor from a tunicate  
 AU Kinnel, Robin B.; Scheuer, Paul J.  
 CS Dep. Chem., Univ. Hawaii, Manoa, Honolulu, HI, 96822, USA  
 SO Journal of Organic Chemistry (1992), 57(23), 6327-9  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DT Journal  
 LA English  
 GI



AB A new inhibitor of protein kinase C (PKC), 11-hydroxystaurosporine (I), has been isolated from a tunicate of the species Eudistoma collected in Pohnpei. This alkaloid is the first with the indolo[2,3-a]carbazole ring system from a marine source. The structure was elucidated by a combination of NMR and mass spectroscopy. I is highly toxic to human nasopharyngeal cells and inhibits protein kinase C with an IC<sub>50</sub> of 2.2 nM.  
 A second deriv., 3,11-dihydroxystaurosporine, was also isolated in amts. too small to characterize fully.  
 IT **143682-18-2**  
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)  
 (of tunicate)  
 RN 143682-18-2 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)



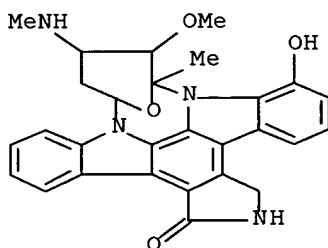
IT **143682-17-1**

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
BIOL (Biological study); OCCU (Occurrence)  
(of tunicate, cytotoxicity of and protein kinase C inhibition by)

RN 143682-17-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7-hydroxy-10-  
methoxy-

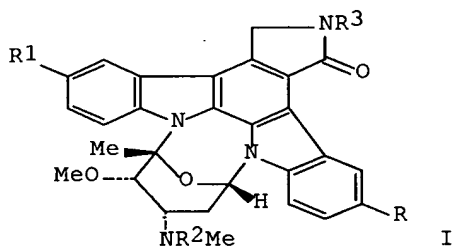
9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)



in 1PS

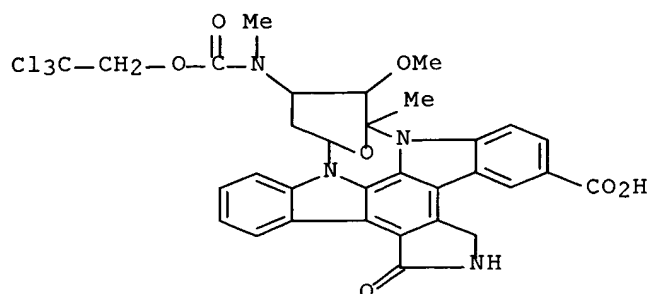
L8 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1992:59419 CAPLUS  
 DN 116:59419  
 TI Preparation of staurosporinecarboxylic acid derivatives as blood  
 platelet  
 aggregation inhibitors  
 IN Yamada, Rintaro; Omura, Satoshi  
 PA Asahi Chemical Industry Co., Ltd., Japan; Kitasato Institute  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.       | KIND | DATE     | APPLICATION NO. | DATE     |
|------|------------------|------|----------|-----------------|----------|
| PI   | JP 03220194      | A2   | 19910927 | JP 1990-329902  | 19901130 |
| PRAI | JP 1989-308936   |      | 19891130 |                 |          |
| OS   | MARPAT 116:59419 |      |          |                 |          |
| GI   |                  |      |          |                 |          |



AB The title compds. [I; R, R1 = H, HCO, CO2H, C.ltoreq.5 alkoxy carbonyl; R2  
 =  
 H, CO2CH2CCl3; R3 = H, acyl] and their salts are prepd. Oxidn. of  
 diformyl compd. I (R = R1 = HCO, R2 = CO2CH2CF3, R3 = Ac) with KMnO4 in  
 1,4-dioxane, followed by hydrolysis, gave 60% dicarboxy compd. I (R = R1  
 =  
 CO2H, R2 = CO2CH2CF3, R3 = H), which was reduced with powd. Zn and 2N  
 HCl  
 in Me Cellosolve to give 31% I (R = R1 = CO2H, R2 = R3 = H) (II). II  
 showed the ratio IC50 (platelet aggregation inhibition)/ED50  
 (vasoconstriction inhibition) = 0.92, vs. 66.0 for staurosporine.  
 IT **138585-96-3P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);  
 RACT  
 (Reactant or reagent)  
 (prepn. and reaction of, in prepn. of blood platelet aggregation  
 inhibitor)  
 RN 138585-96-3 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonine-5-carboxylic acid, 2,3,10,11,12,13-hexahydro-10-  
 methoxy-9-methyl-11-[methyl[(2,2,2-trichloroethoxy)carbonyl]amino]-1-  
 oxo-,  
 (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)





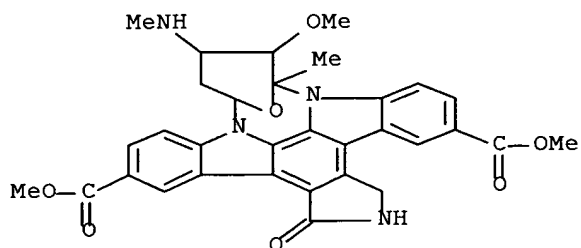
IT **138585-99-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 138585-99-6 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxylic acid, 2,3,10,11,12,13-hexahydro-10-

methoxy-9-methyl-11-(methylamino)-1-oxo-, dimethyl ester,  
(9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



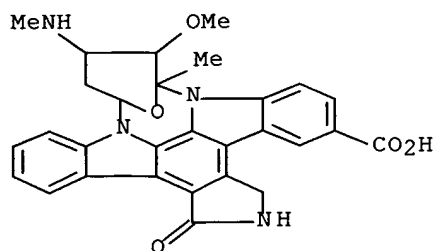
IT **138585-97-4P 138585-98-5P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as platelet aggregation inhibitor)

RN 138585-97-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5-carboxylic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-,  
(9.alpha.,10.beta.,11.beta.,13.alpha.)-

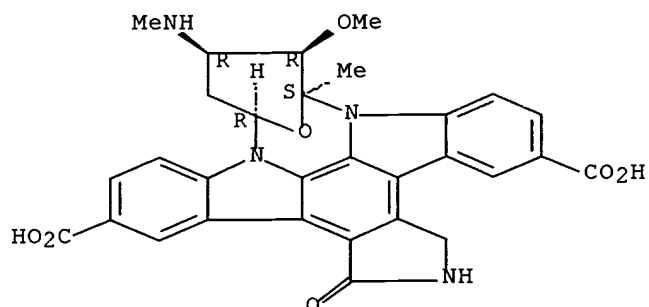
lpha.)- (9CI) (CA INDEX NAME)



RN 138585-98-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxylic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

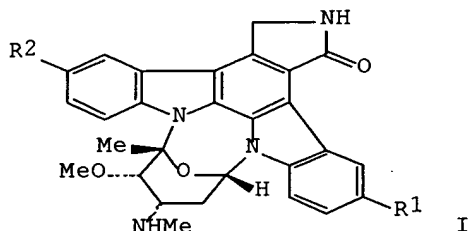
Absolute stereochemistry.



in 1PS

L8 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1991:492688 CAPLUS  
 DN 115:92688  
 TI Preparation of staurosporine derivatives as platelet aggregation inhibitors  
 IN Yamada, Rintaro; Sasaki, Kunie; Oomura, Satoshi  
 PA Asahi Chemical Industry Co., Ltd., Japan; Kitasato Institute  
 SO Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.       | KIND | DATE     | APPLICATION NO. | DATE     |
|------|------------------|------|----------|-----------------|----------|
| PI   | JP 03072485      | A2   | 19910327 | JP 1990-130285  | 19900522 |
| PRAI | JP 1989-127851   |      | 19890523 |                 |          |
| OS   | MARPAT 115:92688 |      |          |                 |          |
| GI   |                  |      |          |                 |          |



AB The title derivs. I (R1-2 = H, NH2, OH, CH2OH; .gtoreq.1 of R1-2 is not H)  
 and their acid salts are prepd. Reaction of staurosporine with ClCO2CH2CF3 in pyridine gave 82% 4'-N-(.beta.,.beta.,.beta.-trichloroethoxycarbonyl)staurosporine, which was N-acetylated to afford 85% acetyl deriv. (II). Nitration of II gave 91% 3-nitro deriv., which was deacetylated in 78% yield and the product was reduced by Zn-HCl to give 36% I (R1 = NH2, R2 = H), which exhibited IC50 of 0.9 .mu.M against collagen-induced platelet aggregation, vs. 8.5 for staurosporine.

IT **135384-27-9P 135384-28-0P 135384-29-1P**  
**135384-32-6P 135417-39-9P 135417-40-2P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

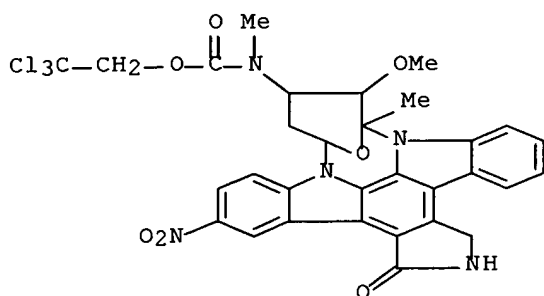
(Reactant or reagent)

(prepn. and reaction of, for platelet aggregation inhibitor manuf.)

RN 135384-27-9 CAPLUS

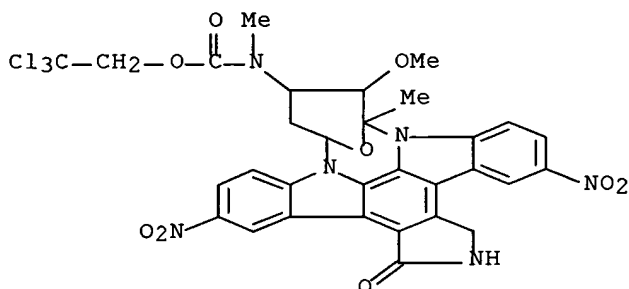
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1-

oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 135384-28-0 CAPLUS

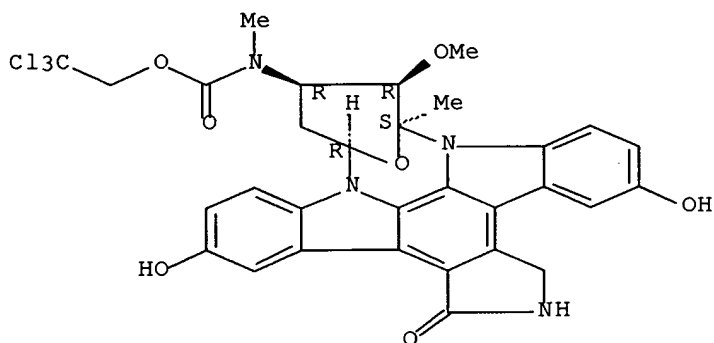
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5,17-dinitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 135384-29-1 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

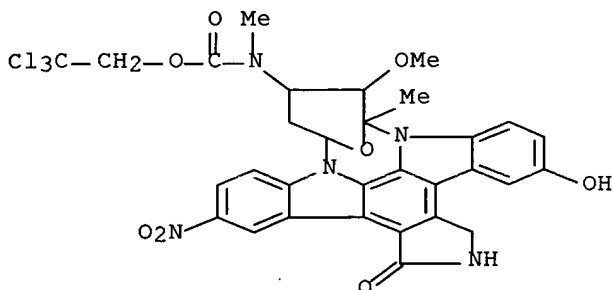


RN 135384-32-6 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5-hydroxy-10-methoxy-9-methyl-

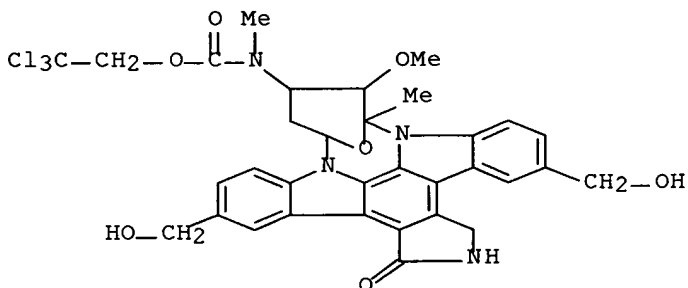
17-

nitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



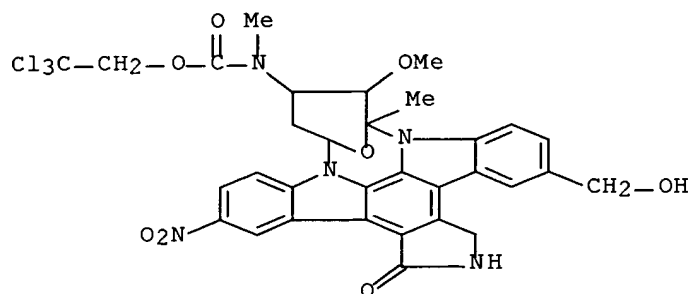
RN 135417-39-9 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 135417-40-2 CAPLUS

CN Carbamic acid, [2,3,10,11,12,13-hexahydro-5-(hydroxymethyl)-10-methoxy-9-methyl-17-nitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



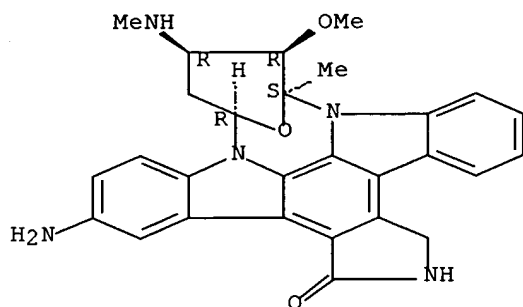
IT 135384-18-8P 135384-19-9P 135384-20-2P  
135384-21-3P 135384-22-4P 135384-23-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as platelet aggregation inhibitor)

RN 135384-18-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

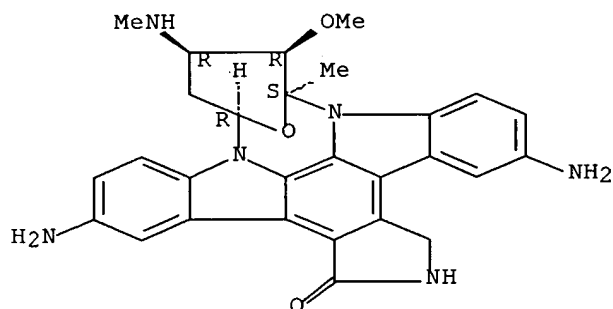
Absolute stereochemistry.



RN 135384-19-9 CAPLUS

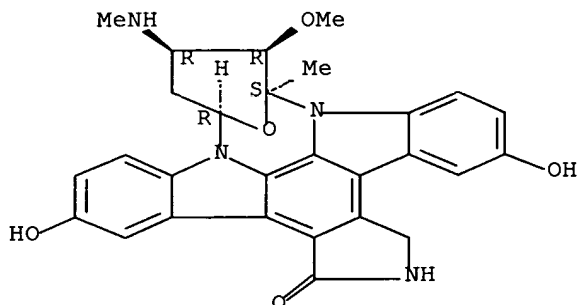
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



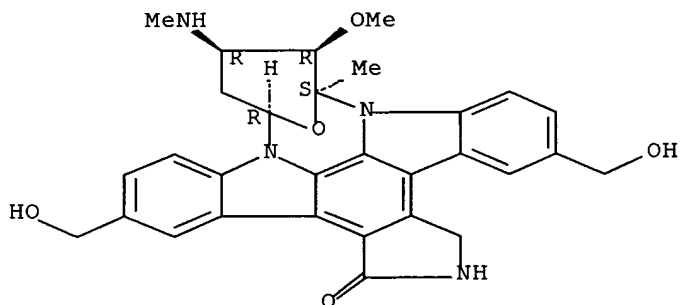
RN 135384-20-2 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

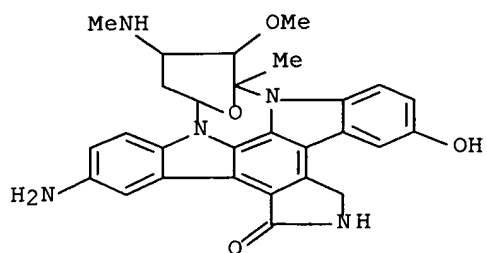


RN 135384-21-3 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

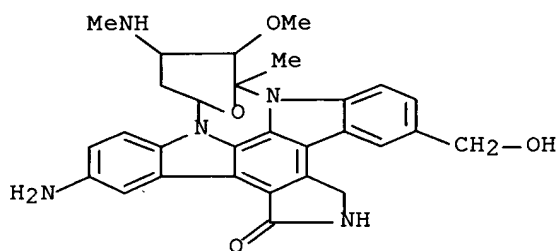
Absolute stereochemistry.



RN 135384-22-4 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-5-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

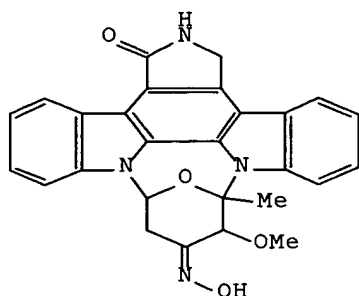


RN 135384-23-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-5-(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

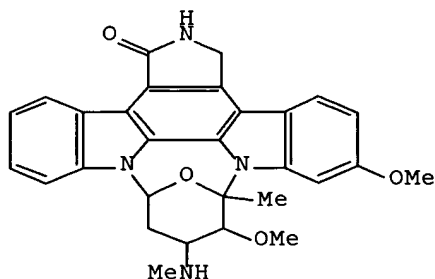




L8 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1991:471987 CAPLUS  
 DN 115:71987  
 TI Structure determination of indolocarbazole alkaloids by NMR spectroscopy  
 AU Tsubotani, Shigetoshi; Tanida, Seiichi; Harada, Setsuo  
 CS Microbiol. Res. Lab., Takeda Chem. Ind. Ltd., Osaka, 532, Japan  
 SO Tetrahedron (1991), 47(22), 3565-74  
 CODEN: TETRAB; ISSN: 0040-4020  
 DT Journal  
 LA English  
 GI

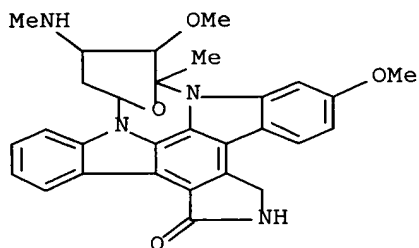


I



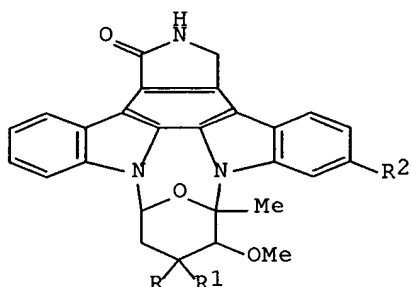
II

AB The structures of two indolocarbazole alkaloids with macrophage-activating properties, TAN-1030 (I) and TAN-999 (II), were detd. based on NMR spectral anal.  
 IT **124843-68-1**, TAN 999  
 RL: PRP (Properties)  
 (mol. structure of, NMR in relation to)  
 RN 124843-68-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-6,10-dimethoxy-9-methyl-11-(methylamino)- (9CI) (CA INDEX NAME)



same as in 17

L8 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1990:151423 CAPLUS  
 DN 112:151423  
 TI TAN-999 and TAN-1030A, a new indolocarbazole alkaloids with  
 macrophage-activating properties  
 AU Tanida, Seiichi; Takizawa, Masayuki; Takahashi, Toshiyuki; Tsubotani,  
 Shigetoshi; Harada, Setsuo  
 CS Microbiol. Res. Lab., Takeda Chem. Ind. Ltd., Osaka, 532, Japan  
 SO Journal of Antibiotics (1989), 42(11), 1619-30  
 CODEN: JANTAJ; ISSN: 0021-8820  
 DT Journal  
 LA English  
 GI



I, R=H, R<sup>1</sup>=NHMe, R<sup>2</sup>=OMe  
 II, R<sup>1</sup>=NOH, R<sup>2</sup>=H

*same as i / 6*

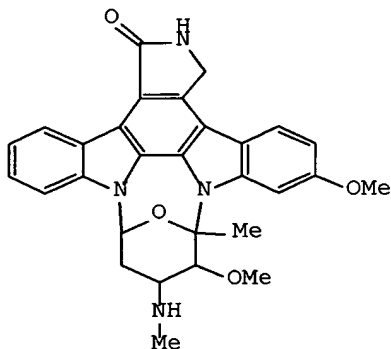
AB Two new indolocarbazole alkaloids, TAN-999 (I) and TAN-1030A (II) were  
 isolated from culture broths of *Nocardia* *das*sonvillei C-71425 and  
*Streptomyces* sp. C-71799, resp. Their structures were elucidated on the  
 basis of their reactions and spectroscopic comparison with  
 staurosporine.

They induced spreading of the murine macrophage cell line Mm 1. They  
 also  
 augmented the phagocytic activity, Fc.gamma. receptor expression, and  
 .beta.-glucuronidase activity of the murine macrophage cell lines Mm 1  
 and  
 J774A.1. When proteose/peptone-elicited peritoneal macrophages from  
 mice  
 were incubated with them for 2 days, their phagocytosis-dependent  
 respiratory burst was enhanced. Similar enhancement was also obsd. when  
 the peritoneal macrophages were modulated by i.p. administration of them  
 in mice. Thus, TAN-999 and TAN-1030A can activate macrophage functions  
 in mice.

IT **126221-75-8**, TAN 999  
 RL: BIOL (Biological study)  
 (isolation and structure detn. and macrophage-activating properties  
 of)  
 RN 126221-75-8 CAPLUS

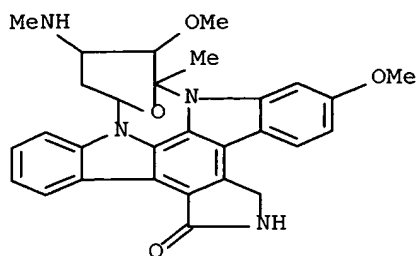
L8 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1990:75314 CAPLUS  
 DN 112:75314  
 TI Antibiotic TAN-999, its manufacture with Nocardiosis, and macrophage activator containing the antibiotic  
 IN Tanida, Seiichi; Takahashi, Toshiyuki; Tsuboya, Shigetoshi; Harada, Setsuo  
 PA Takeda Chemical Industries, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 01149791    | A2   | 19890612 | JP 1987-310253  | 19871207 |
| PRAI | JP 1987-310253 |      | 19871207 |                 |          |
| GI   |                |      |          |                 |          |



I

AB Macrophage activators, useful for treatment of mycosis, bacterial infection, cancer, etc., contain antibiotic TAN-999 (I) or its salts manufd. by cultivation of Nocardiosis. Nocardiosis C-71425 was precultured in a medium contg. glucose, sol. starch, raw soybean meal, corn steep liquor, peptone, and salts at 28.degree. for 48 h, shake-cultured in the same medium at 28.degree. for 48 h, and further aerobically cultured in a medium contg. glucose, dextrin, defatted soybean meal, and CaCO<sub>3</sub> at 28.degree. for 96 h to produce 588 mg I from 110 L culture soln. Physicochem. properties of I are shown.  
 IT **124986-48-7P**  
 RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)  
 (manuf. of, from antibiotic TAN-999, macrophage activators contg.)  
 RN 124986-48-7 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-6,10-dimethoxy-9-methyl-11-(methylamino)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

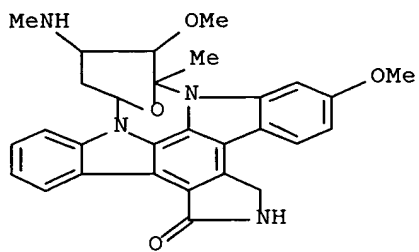
IT 124843-68-1P

RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)

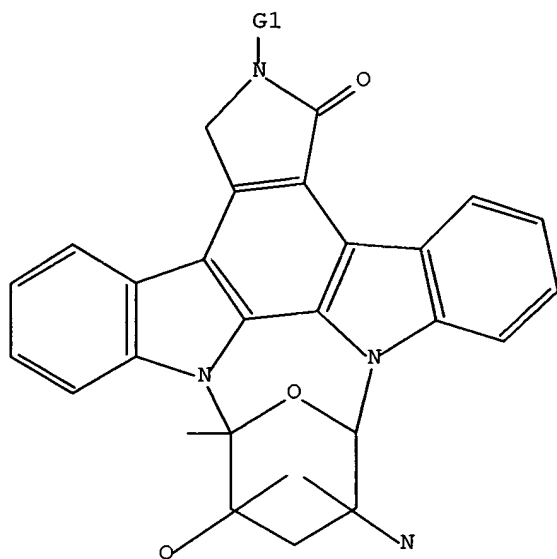
(manuf. of, with Nocardiosis, macrophage activators contg.)

RN 124843-68-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-6,10-dimethoxy-9-methyl-11-(methylamino)- (9CI) (CA INDEX NAME)



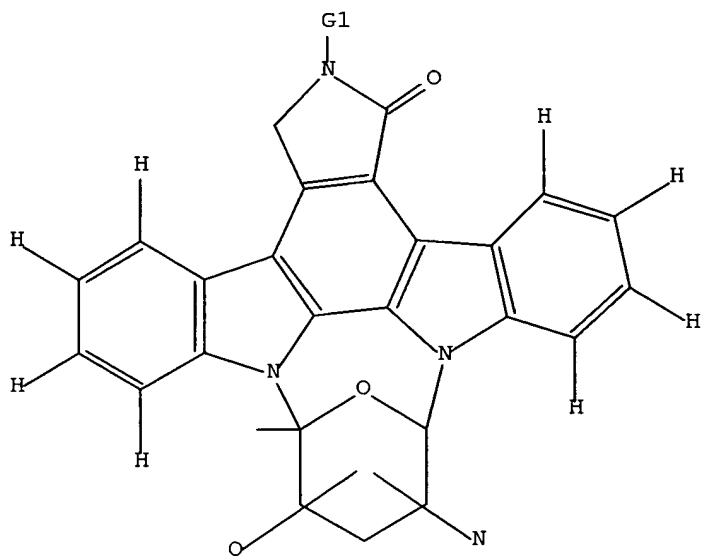
=> d l1; d l4; d his  
L1 HAS NO ANSWERS  
L1 STR



G1 H, Me

Structure attributes must be viewed using STN Express query preparation.

L4 HAS NO ANSWERS  
L4 STR



G1 H, Me

Structure attributes must be viewed using STN Express query preparation.

(FILE 'HOME' ENTERED AT 16:25:03 ON 08 APR 2003)

FILE 'REGISTRY' ENTERED AT 16:25:10 ON 08 APR 2003

L1 STRUCTURE UPLOADED

L2            35 S L1  
 L3           657 S L1 FUL  
 L4                STRUCTURE UPLOADED  
 L5           14 S L4 SAM SUB=L3  
 L6           272 S L4 FUL SUB=L3  
 L7           385 S L3 NOT L6

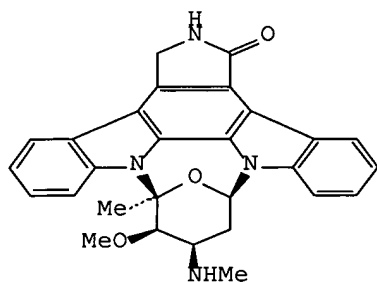
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 L8            18 S L7

=> log y

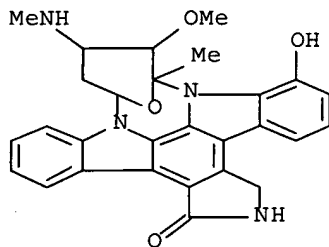
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|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 81.08      | 265.94  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | -11.72     | -11.72  |

STN INTERNATIONAL LOGOFF AT 16:29:59 ON 08 APR 2003

L8 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1994:323976 CAPLUS  
 DN 120:323976  
 TI Absolute configuration of staurosporine by x-ray analysis  
 AU Funato, Nobuyuki; Takayanagi, Hiroaki; Konda, Yaeko; Toda, Yumiko;  
 Harigaya, Yoshihiro; Iwai, Yuzuru; Omura, Satoshi  
 CS Sch. Pharm. Sci., Kitasato Univ., Japan  
 SO Tetrahedron Letters (1994), 35(8), 1251-4  
 CODEN: TELEAY; ISSN: 0040-4039  
 DT Journal  
 LA English  
 GI

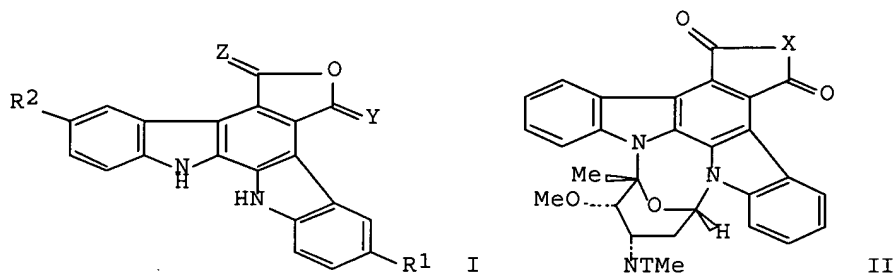


AB The stereostructure of staurosporine (I) was detd. abs. to be  
 2'S,3'R,4'R,6'R-configurations by means of x-ray crystallog. anal. of  
 4'-N-methylstaurosporine methiodide.  
 IT **143682-17-1**, 11-Hydroxystaurosporine  
 RL: PRP (Properties) (abs. configuration of)  
 RN 143682-17-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7-hydroxy-10-  
 methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX  
 NAME)



L8 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1994:31003 CAPLUS  
 DN 120:31003  
 TI Preparation of indolocarbazole derivatives as antitumor agents  
 IN Yamada, Rintaro; Hayashi, Yoshiharu  
 PA Asahi Chemical Ind, Japan  
 SO Jpn. Kokai Tokkyo Koho, 19 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.       | KIND | DATE     | APPLICATION NO. | DATE     |
|------|------------------|------|----------|-----------------|----------|
| PI   | JP 05140168      | A2   | 19930608 | JP 1991-297072  | 19911113 |
| PRAI | JP 1991-297072   |      | 19911113 |                 |          |
| OS   | MARPAT 120:31003 |      |          |                 |          |
| GI   |                  |      |          |                 |          |



AB The title compds. I (C:z, C:Y = CH<sub>2</sub>, C:O; one of C:Z and C:Y must be other than CH<sub>2</sub>; R<sub>1</sub>, R<sub>2</sub> = H, nitro, OH, halo, etc.) were prepd. A mixt. of indolocarbazole deriv. II (X = NH; T = Cl<sub>3</sub>C CH<sub>2</sub>O<sub>2</sub>C) and aq. NH<sub>4</sub>OH in MeOH and dioxane was heated at 50.degree. for 3 h. The resulting mixt. was then treated with aq. NaOH at 10.degree. for 3.5 h to give II (X = O; T = Cl<sub>3</sub>CCH<sub>2</sub>O<sub>2</sub>C) (III). Treatment of III with a mixt. of CF<sub>3</sub>CO<sub>2</sub>H and HCl gave, after workup, I (Y = Z = O, R<sub>1</sub> = R<sub>2</sub> = H) (IV). IV at 10 mg/kg showed antitumor activity in mice.

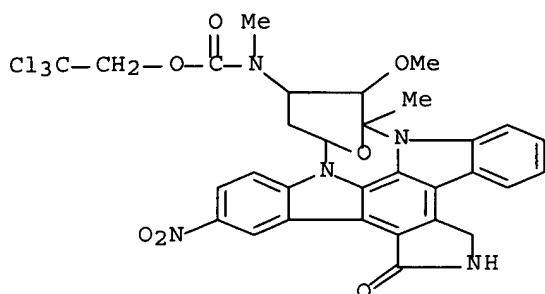
IT 135384-27-9P 135384-29-1P 149166-82-5P  
 149166-84-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);  
 RACT (Reactant or reagent) (prepn. and reaction of, in prepn. of  
 antitumor agent)

RN 135384-27-9 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-  
 1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
 j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester,  
 [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

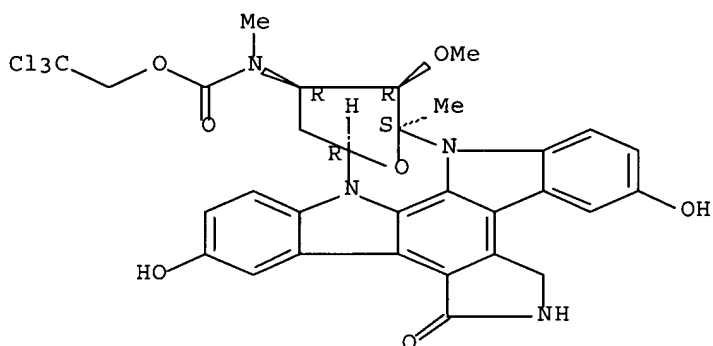




RN 135384-29-1 CAPLUS

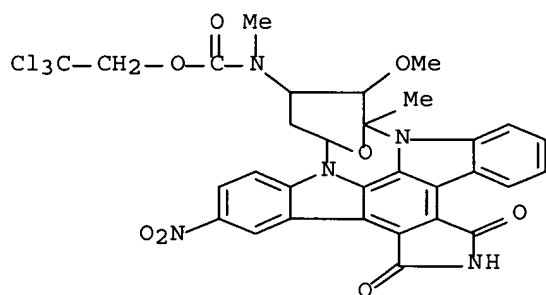
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



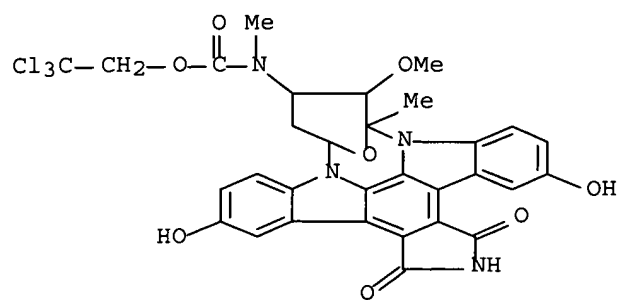
RN 149166-82-5 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)

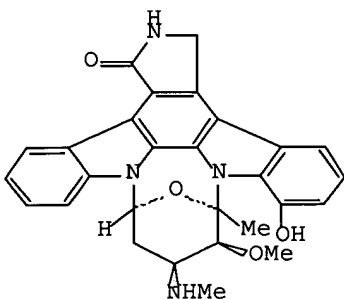


RN 149166-84-7 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1,3-dioxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, (9.alpha.,10.beta.,11.beta.,13.alpha.)- (9CI) (CA INDEX NAME)



L8 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1992:609157 CAPLUS  
 DN 117:209157  
 TI 11-Hydroxystaurosporine: a highly cytotoxic, powerful protein kinase C inhibitor from a tunicate  
 AU Kinnel, Robin B.; Scheuer, Paul J.  
 CS Dep. Chem., Univ. Hawaii, Manoa, Honolulu, HI, 96822, USA  
 SO Journal of Organic Chemistry (1992), 57(23), 6327-9  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DT Journal  
 LA English  
 GI



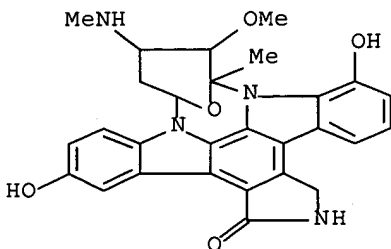
AB A new inhibitor of protein kinase C (PKC), 11-hydroxystaurosporine (I), has been isolated from a tunicate of the species Eudistoma collected in Pohnpei. This alkaloid is the first with the indolo[2,3-a]carbazole ring system from a marine source. The structure was elucidated by a combination of NMR and mass spectroscopy. I is highly toxic to human nasopharyngeal cells and inhibits protein kinase C with an IC<sub>50</sub> of 2.2 nM. A second deriv., 3,11-dihydroxystaurosporine, was also isolated in ams. too small to characterize fully.

IT 143682-18-2

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
 BIOL (Biological study); OCCU (Occurrence) (of tunicate)

RN 143682-18-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R) - (9CI) (CA INDEX NAME)



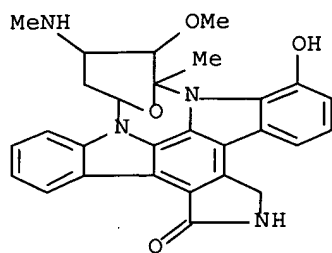
IT 143682-17-1

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
 BIOL (Biological study); OCCU (Occurrence)  
 (of tunicate, cytotoxicity of and protein kinase C inhibition by)

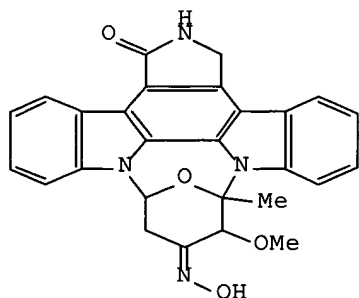
RN 143682-17-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R) - (9CI) (CA INDEX

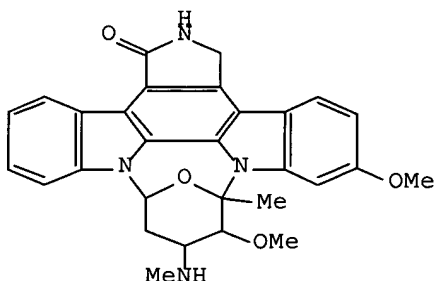
NAME)



L8 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1991:471987 CAPLUS  
 DN 115:71987  
 TI Structure determination of indolocarbazole alkaloids by NMR spectroscopy  
 AU Tsubotani, Shigetoshi; Tanida, Seiichi; Harada, Setsuo  
 CS Microbiol. Res. Lab., Takeda Chem. Ind. Ltd., Osaka, 532, Japan  
 SO Tetrahedron (1991), 47(22), 3565-74  
 CODEN: TETRAB; ISSN: 0040-4020  
 DT Journal  
 LA English  
 GI

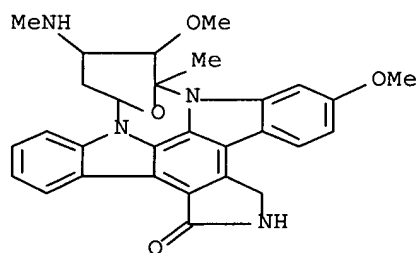


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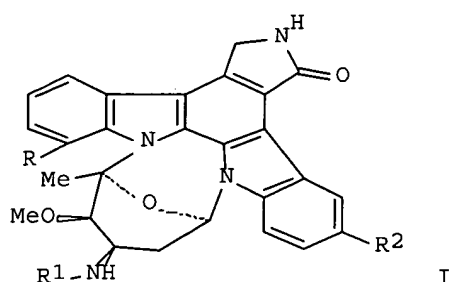


II

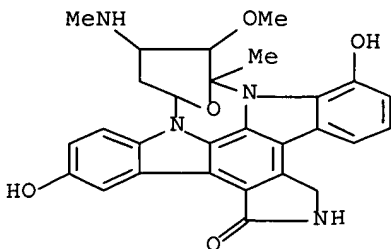
AB The structures of two indolocarbazole alkaloids with macrophage-activating properties, TAN-1030 (I) and TAN-999 (II), were detd. based on NMR spectral anal.  
 IT **124843-68-1**, TAN 999  
 RL: PRP (Properties)  
 (mol. structure of, NMR in relation to)  
 RN 124843-68-1 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-6,10-dimethoxy-9-methyl-11-(methylamino)- (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 2000:269598 CAPLUS  
 DN 133:14836  
 TI A new staurosporine analog from the prosobranch mollusk *Coriocella nigra*  
 AU Cantrell, Charles L.; Groweiss, Amiram; Gustafson, Kirk R.; Boyd, Michael R.  
 CS Division of Cancer Treatment, Diagnosis, Laboratory of Drug Discovery Research and Development, Developmental Therapeutics Program, Frederick, MD, 21702-1201, USA  
 SO Natural Product Letters (1999), 14(1), 39-46  
 CODEN: NPLEEF; ISSN: 1057-5634  
 PB Harwood Academic Publishers  
 DT Journal  
 LA English  
 GI



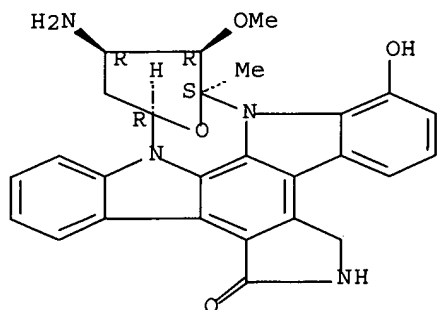
AB A new staurosporine analog, 4'-N-demethyl-11-hydroxystaurosporine I (R = OH, R1 = R2 = H), was isolated by cytotoxicity-guided fractionation of an org. ext. of the prosobranch mollusk *Coriocella nigra*. The known staurosporine deriv. 3,11-dihydroxystaurosporine I (R = R2 = OH, R1 = Me) was also isolated from this ext. Concurrent investigations of *Coriocella hibiya* resulted in the isolation of two known compds., lamellarins C and U. The structures of all four alkaloids were elucidated by spectroscopic methods and the compds. were evaluated for cytotoxicity against 10 human tumor cell lines. 4'-N-demethyl-11-hydroxystaurosporine and 3,11-dihydroxystaurosporine demonstrated potent cytotoxic activity with IC50's ranging from approx. 2 to 66 ng/mL.  
 IT **143682-18-2P**, 3,11-Dihydroxystaurosporine **272766-45-7P**, 4'-N-Demethyl-11-hydroxystaurosporine  
 RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation) (isolation, antitumor activity, and mol. structure of 4'-N-demethyl-11-hydroxystaurosporine, a new staurosporine analog from the prosobranch mollusk, *Coriocella nigra*)  
 RN 143682-18-2 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-7,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R) - (9CI) (CA INDEX NAME)



RN 272766-45-7 CAPLUS

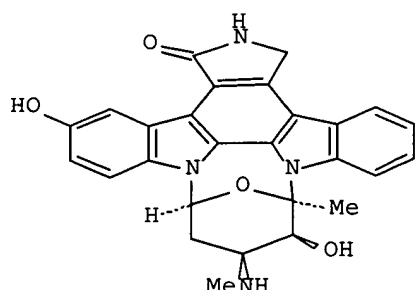
CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 11-amino-2,3,10,11,12,13-hexahydro-7-hydroxy-10-methoxy-9-methyl-, (9S,10R,11R,13R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1999:346583 CAPLUS  
 DN 131:182513  
 TI Staurosporine derivatives from the ascidian *Eudistoma toealensis* and its predatory flatworm *Pseudoceros* sp.  
 AU Schupp, Peter; Eder, Claudia; Proksch, Peter; Wray, Victor; Schneider, Bernd; Herderich, Markus; Paul, Valerie  
 CS Lehrstuhl fuer Pharmazeutische Biologie, Julius-von-Sachs-Institut fuer Biowissenschaften, Wuerzburg, D-97082, Germany  
 SO Journal of Natural Products (1999), 62(7), 959-962  
 CODEN: JNPRDF; ISSN: 0163-3864  
 PB American Chemical Society  
 DT Journal  
 LA English  
 GI

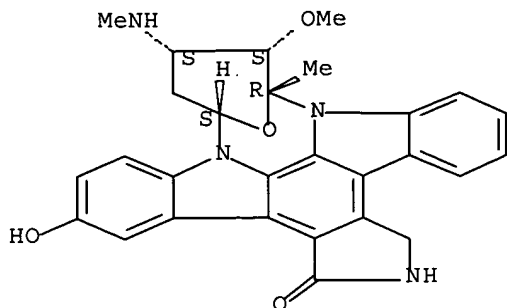


I

AB Two new indolocarbazole alkaloids, 3-hydroxy-3'-demethoxy-3'-hydroxystaurosporine (I) and 11-hydroxy-4'-N-demethylstaurosporine, were isolated from the marine ascidian *Eudistoma toealensis* and its predator, the marine flatworm *Pseudoceros* sp. In addn., five known derivs. were isolated in their protonated states, which caused the pyran-ring system to adopt a boat conformation. The structures were detd. by 1D and 2D homonuclear and 1H-detected heteronuclear NMR spectroscopy and from comparisons with published data. The heteronuclear correlations were necessary to establish reliable data for the structure elucidation.  
 IT **239785-02-5**  
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP(Properties); BIOL (Biological study); OCCU (Occurrence)  
 (staurosporine derivs. from ascidian *Eudistoma toealensis* and predatory flatworm *Pseudoceros* sp.)  
 RN 239785-02-5 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-17-hydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9R,10S,11S,13S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





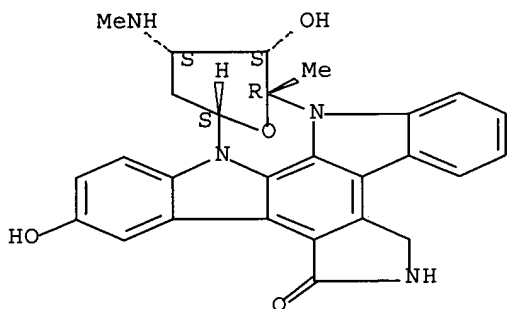
IT 239785-04-7P 239785-05-8P

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
PRP (Properties); PUR (Purification or recovery); BIOL (Biological  
study); OCCU (Occurrence); PREP (Preparation)  
(staurosporine derivs. from ascidian Eudistoma toeaensis and predatory  
flatworm Pseudoceros sp.)

RN 239785-04-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10,17-dihydroxy-9-  
methyl-11-(methylamino)-, (9R,10S,11S,13S)- (9CI) (CA INDEX NAME)

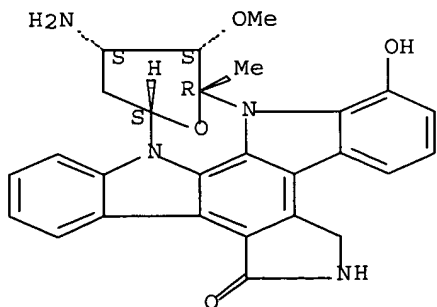
Absolute stereochemistry.



RN 239785-05-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
j][1,7]benzodiazonin-1-one, 11-amino-2,3,10,11,12,13-hexahydro-7-  
hydroxy-10-methoxy-9-methyl-, (9R,10S,11S,13S)- (9CI) (CA INDEX NAME)

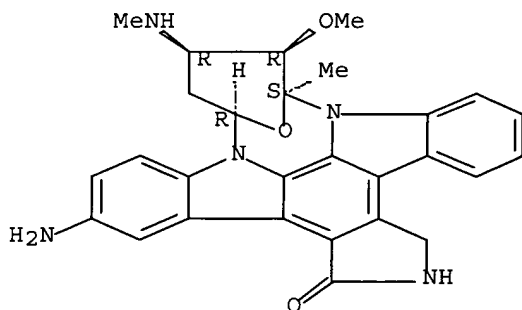
Absolute stereochemistry.



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

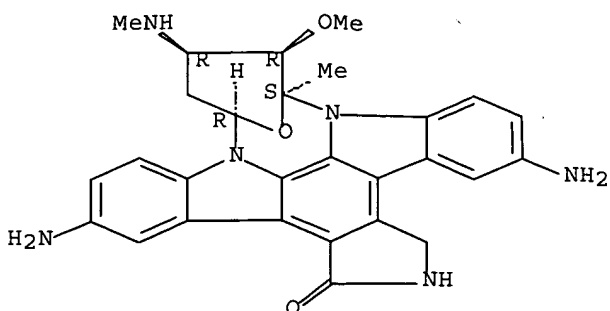
L8 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS  
 AN 1996:652181 CAPLUS  
 DN 126:19087  
 TI Synthesis and anti-platelet aggregation activity of water-soluble staurosporine derivatives  
 AU Yamada, Rintaro; Seto, Minoru; Sasaki, Yasuharu; Sunazuka, Toshiaki; Harigaya, Yoshihiro; Iwai, Yuzuru; Omura, Satoshi  
 CS Kitasato Inst., Kitasato Univ., Tokyo, 108, Japan  
 SO Journal of Antibiotics (1996), 49(10), 1070-1072  
 CODEN: JANTAJ; ISSN: 0021-8820  
 PB Japan Antibiotics Research Association  
 DT Journal  
 LA English  
 AB Several substituted staurosporine derivs. were prepd. from staurosporine in order to improve the soly. The 3,9-diamino deriv. had blood platelet aggregation and protein kinase inhibiting activity similar to that of staurosporine, but its hydrochloride had a soly. of >400 mg/mL in water.  
 IT 135384-18-8P 135384-19-9P 135384-20-2P  
 135384-21-3P 138585-98-5P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (prepn. and platelet aggregation-inhibiting activity of water-sol. staurosporine derivs.)  
 RN 135384-18-8 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 135384-19-9 CAPLUS  
 CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R)- (9CI) (CA INDEX NAME)

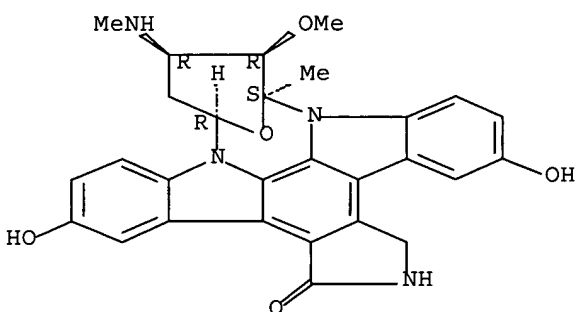
Absolute stereochemistry.



RN 135384-20-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R) - (9CI) (CA INDEX NAME)

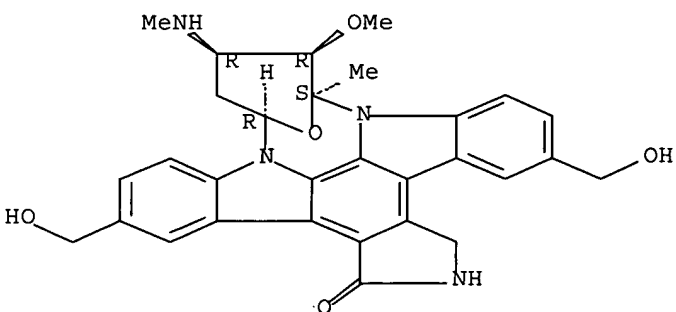
Absolute stereochemistry.



RN 135384-21-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-, (9S,10R,11R,13R) - (9CI) (CA INDEX NAME)

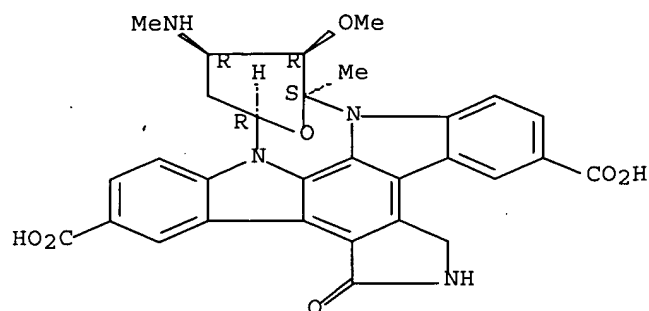
Absolute stereochemistry.



RN 138585-98-5 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxylic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-, (9S,10R,11R,13R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



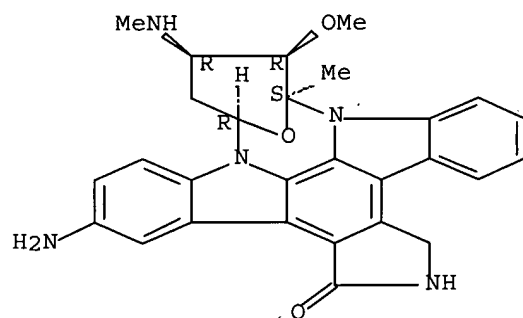
IT 184180-07-2P 184180-08-3P 184180-09-4P  
184180-10-7P 184180-11-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and platelet aggregation-inhibiting activity of water-sol.  
staurosporine derivs.)

RN 184180-07-2 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
j][1,7]benzodiazonin-1-one, 17-amino-2,3,10,11,12,13-hexahydro-10-  
methoxy-9-methyl-11-(methylamino)-, monohydrochloride, [9S-  
(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

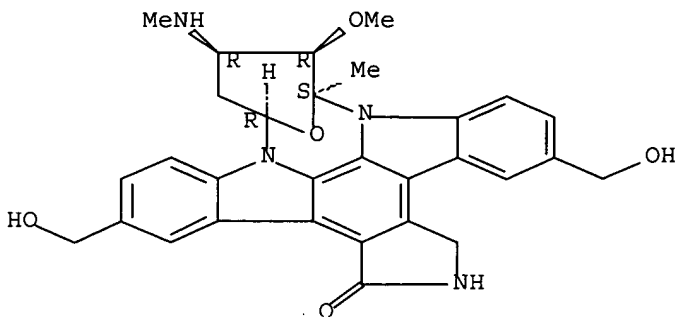


○ HCl

RN 184180-08-3 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-  
j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-  
bis(hydroxymethyl)-10-methoxy-9-methyl-11-(methylamino)-,  
monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

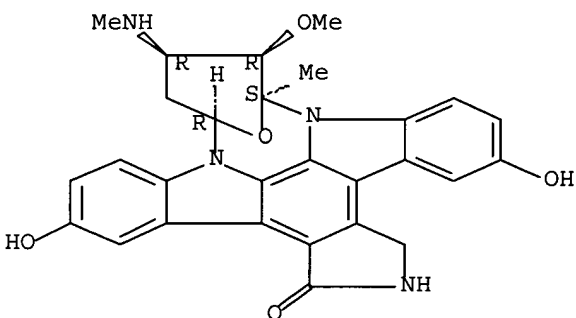


⊙ HCl

RN 184180-09-4 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

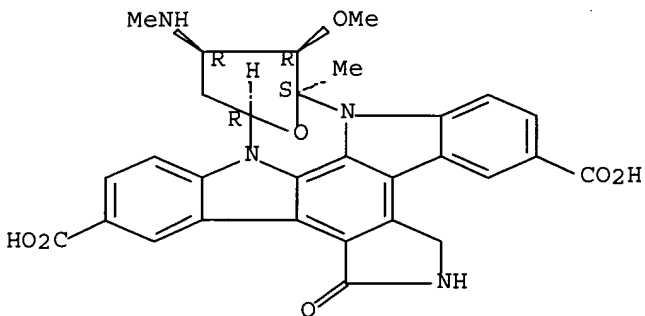


⊙ HCl

RN 184180-10-7 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxylic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-1-oxo-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

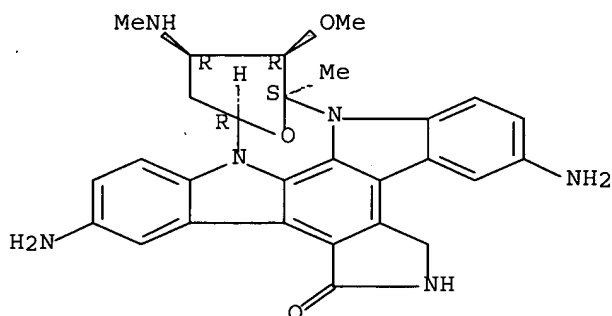


○ HCl

RN 184180-11-8 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one, 5,17-diamino-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-(methylamino)-, monohydrochloride, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



○ HCl

IT 135384-27-9P 135384-28-0P 135384-29-1P

135417-39-9P 183999-34-0P 183999-35-1P

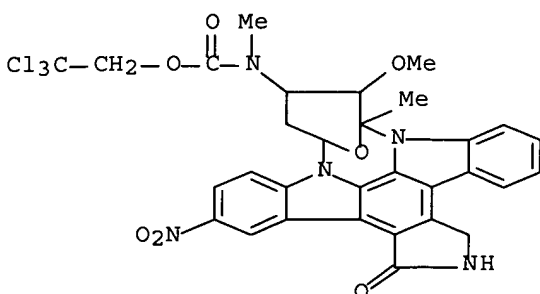
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT (Reactant or reagent)

(prepn. and platelet aggregation-inhibiting activity of water-sol. staurosporine derivs.)

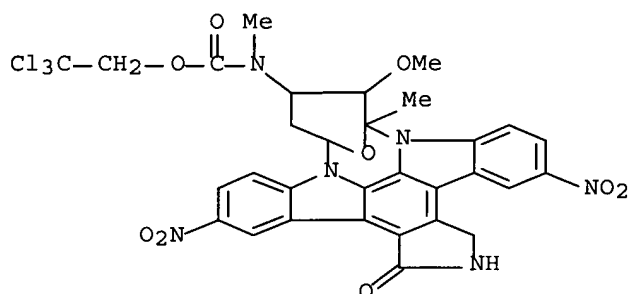
RN 135384-27-9 CAPLUS

CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-17-nitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 135384-28-0 CAPLUS

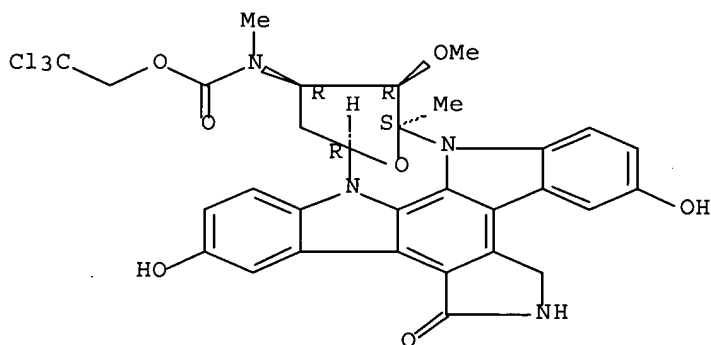
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-5,17-dinitro-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 135384-29-1 CAPLUS

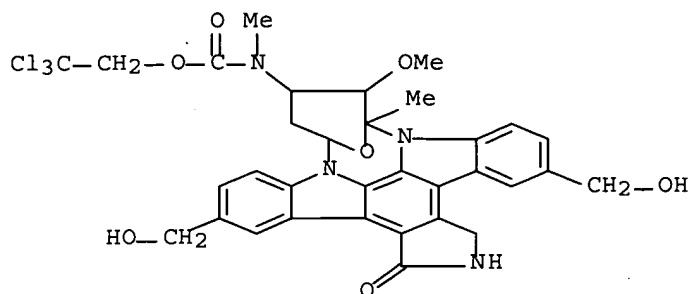
CN Carbamic acid, (2,3,10,11,12,13-hexahydro-5,17-dihydroxy-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 135417-39-9 CAPLUS

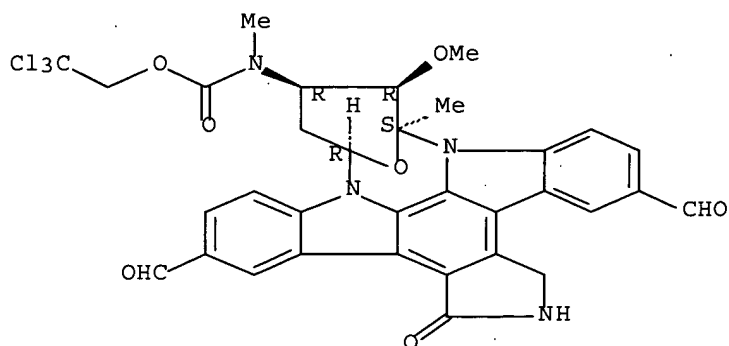
CN Carbamic acid, [2,3,10,11,12,13-hexahydro-5,17-bis(hydroxymethyl)-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)



RN 183999-34-0 CAPLUS

CN Carbamic acid, (5,17-diformyl-2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)methyl-, 2,2,2-trichloroethyl ester, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 183999-35-1 CAPLUS

CN 9,13-Epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonine-5,17-dicarboxylic acid, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-[methyl[(2,2,2-trichloroethoxy)carbonyl]amino]-1-oxo-, [9S-(9.alpha.,10.beta.,11.beta.,13.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

